CD Radio Gravador Estéreo AZ 9055

Service
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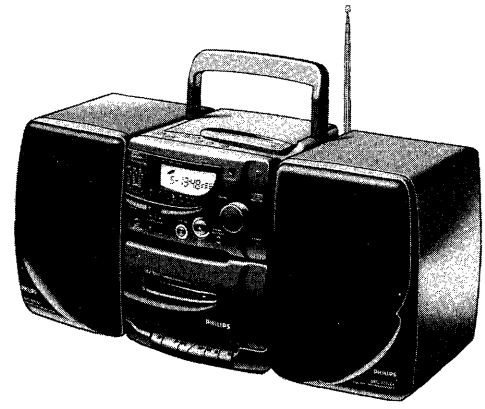
Volta ao Menu



Service Manual

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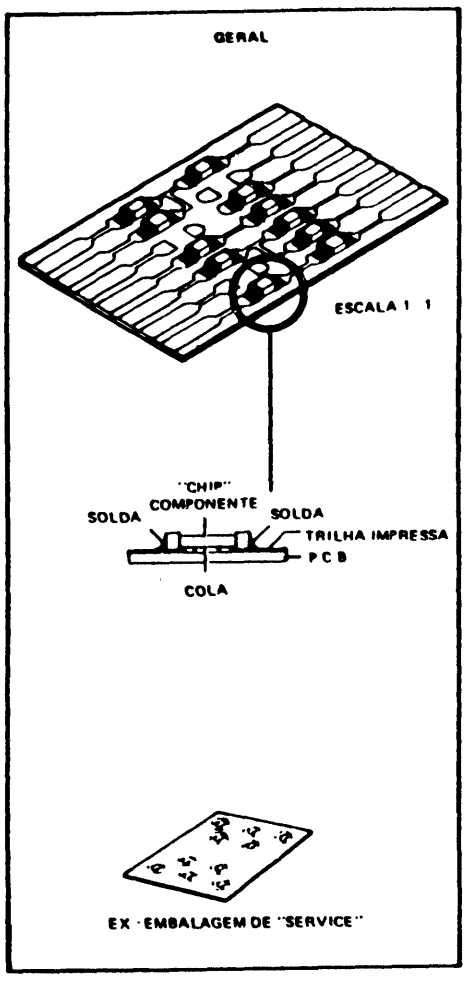
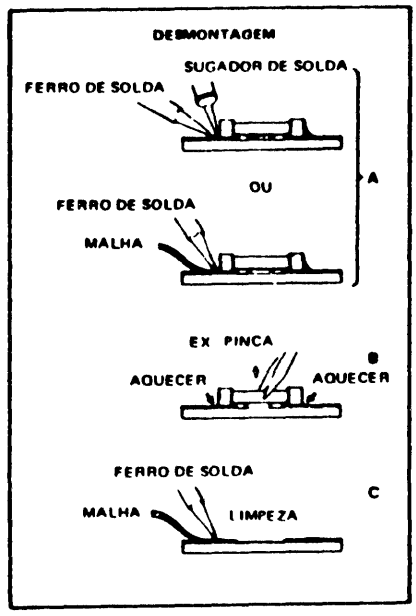
PHILIPS

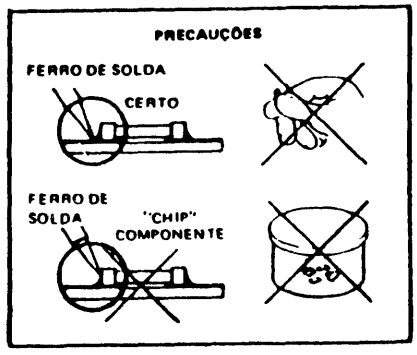
SUGESTÕES DE MANUTENÇÃO

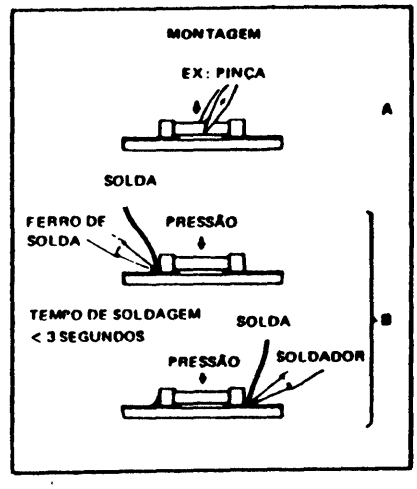
Foram utilizados componentes **SMD** neste conjunto. Para montagem e desmontagem destes componentes veja a figura abaixo.

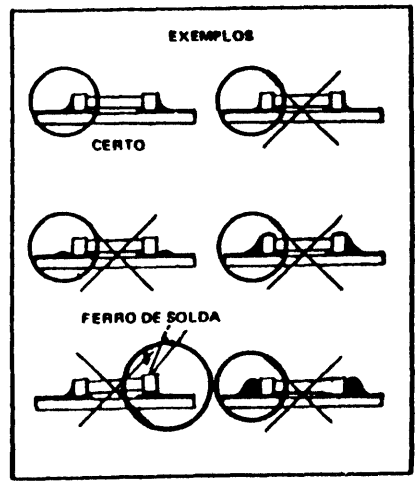
MANUSEIO DE "CHIP" COMPONENTES



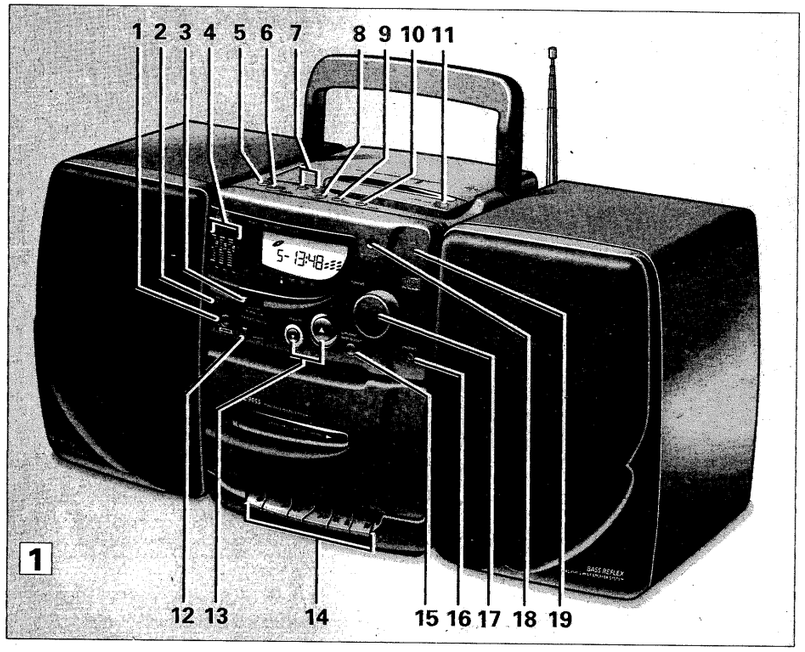


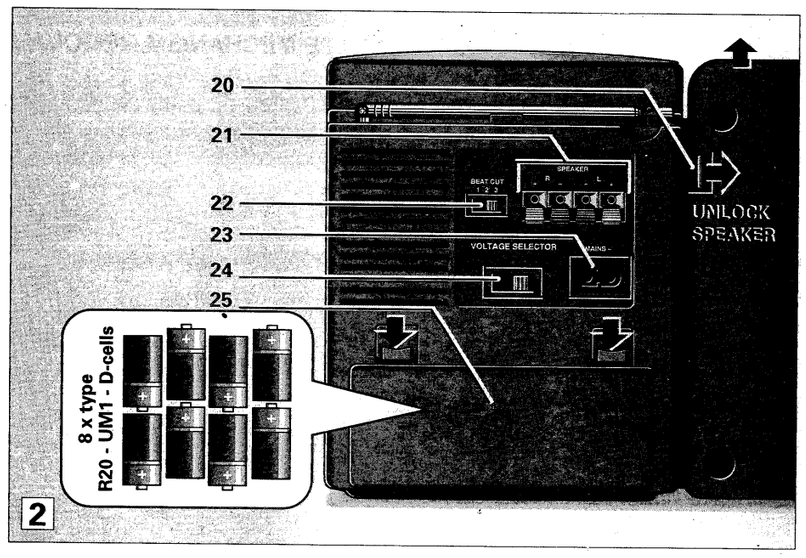






CONEXÕES E CONTROLES





TOP AND FRONT PANEL

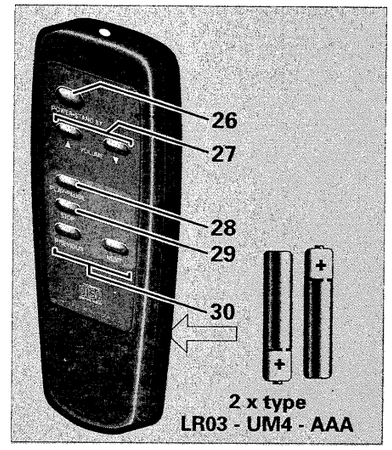
1 **POWER on/stand by button**
2 **STAND BY indicator**
3 **LW - MW - FM** - wave band selector
4 **GRAPHIC EQUALIZER** - tone controls·
100 Hz - bass
1 kHz - mid
10 kHz - treble
5 **STOP ■** - CD stop
6 **PLAY·PAUSE ▶II** - CD play and pause
7 **⏮ PREVIOUS/NEXT ⏭ / SEARCH**
– to search for a particular passage within a CD track
– to return to the start of a CD track or to select a next or previous track
8 **SHUFFLE** - to play an entire CD in a random order
9 **REPEAT** - to repeat one track, an entire CD or a CD program
10 **PROGRAM** - to program CD track numbers
11 **OPEN·CLOSE** - to open and close the CD tray
12 **CD/TAPE/RADIO** - function selector
13 **VOLUME ▲/▼** - to adjust the volume
14 **Cassette buttons**
RECORD ●
PLAY ▶
REWIND ◀◀ - fast rewind
F.FWD ▶▶ - fast forward wind
STOP·EJECT ■ ▲
PAUSE II
15 **Dynamic Bass Boost** (DBB)
16 **PHONES** ∩ - socket for stereo headphones having a 3 5 mm plug Inserting the plug will disconnect the speakers.
17 **TUNING knob** - to tune to radio stations
18 **REMOTE SENSOR** - receives the infrared remote control signals
19 **FM STEREO** - FM stereo indicator - lights up when receiving an FM stereo station

BACK PANEL

20 **UNLOCK** - levers to take off the speakers
21 **SPEAKERS** - speaker terminals
22 **BEAT CUT switch** - If during recording of a MW radio station, a whistling sound is heard, this can be suppressed by setting the BEATCUT switch to another position.
23 **MAINS ~** - socket for mains lead
24 **VOLTAGE** selector *(not on all versions)*
25 **BATTERY DRAWER**

REMOTE CONTROL

26 **POWER on/stand by button**
27 **VOLUME ▲/▼** - to adjust the volume
28 **PLAY·PAUSE ▶II** - to start or interrupt CD-playback
29 **STOP ■** - to stop CD-playback
30 **⏮ PREVIOUS/NEXT ⏭ / SEARCH**
– to search for a particular passage within a track
– to return to the start of a track or to select a next or previous track



Remote control batteries
- Open the battery compartment and insert two batteries, type LR03, UM4 or AAA.
- Remove the batteries when they are exhausted or if they will not be used again for a long period.

ESPECIFICAÇÕES TÉCNICAS

GERAIS

Tensão / Frequência de rede		: 110/220V / 60Hz
Bateria		: 12V (R20x8)
Consumo		: 35W
Dimensões (L x A x P)		: 560x187x215 mm
Peso		: 4,4 Kg

AMPLIFICADOR

Potência de saída	rede	: 2 x 2,5W
	bateria	: 2 x 2,2W
Impedância dos falantes		: 2 x 4 Ω
Resposta em frequência		: 100Hz - 8 KHz (-3dB)
Equalizador gráfico	100Hz	: + 8 ± 2dB
	1KHz	: + 8 ± 2dB
	10KHz	: + 8 ± 2dB

AUDIO / CASSETE

Wow & flutter		: 0.4 WTD DIN
Resposta em frequência	P/B	: 125Hz - 8KHz (-3dB)
Relação S/N		: > 40dB
Apagamento		: > 53dB (w/BPF)
Frequência de BIAS		: 80 ± 0.2 Khz

CD

Resposta em frequência	±3dB	: 80Hz - 12khz
Relação S/N		: > 62dB
Distorção	a 1KHz	: < 1,5%
Diferença entre canais	a 1KHz	: < 2dB
Crosstalk entre canais	a 1KHz	: > 35dB
Potência do laser		: < 0,3mW

TUNER - FM

Range de sintonia	: 86,3 - 108,2MHz
Frequência FI	: 10,7MHz
Sensibilidade (S/N = 26dB)	: 7µV
Seletividade (a ± 300KHz)	: 20dB
Rejeição de FI	: > 54dB
Rejeição de Imagem	: > 25dB
Supressão de AM	: > 28dB
Separação Estéreo (a 1KHz)	: > 25dB

TUNER - AM

Range de sintonia	: 515 - 1630KHz
Sensibilidade	: < 2500µV/m (S/N = 26dB)
Seletividade	: > 16dB
Rejeição de FI	: > 35dB
Rejeição de Imagem	: > 28dB

INSTRUÇÕES DE DESMONTAGEM

1. PAINEL FRONTAL COM PARTES REMOVÍVEL DO CD

1. Remove the two fixing screws on the top of the rear cabinet . (see fig.1) Open the battery door.

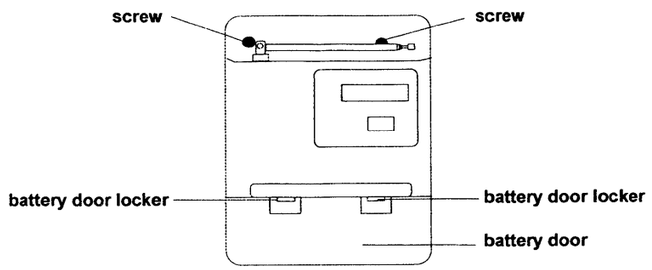


FIG. 1

2. Inside the battery compartment, there is anothertwo fixing screws,(see fig.2). Remove this two screws.

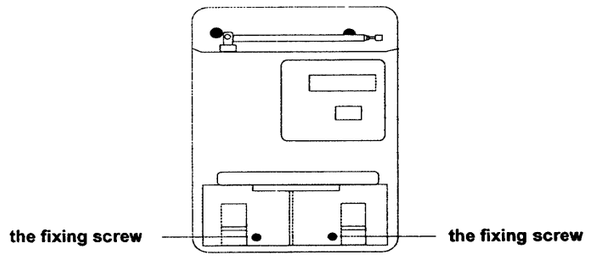


FIG. 2

3. Slide the front panel with CD parts forward from the back cabinet about two to three inch apart. (see fig.3)

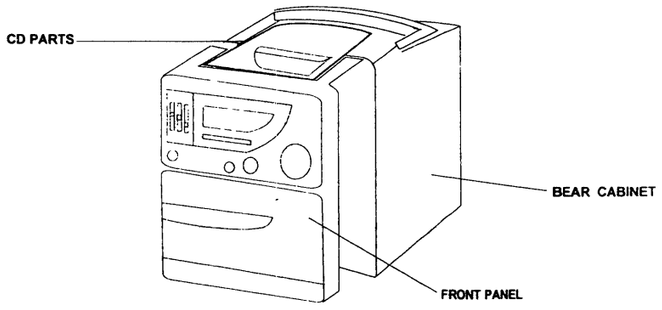


FIG. 3

2. PARTE DO CD E PAINEL FRONTAL DESMONTADO

1. Withdraw the CD part off the front panel as shown (see fig.4)

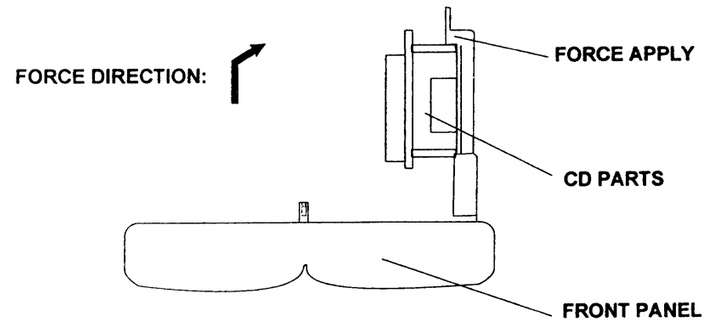


FIG. 4

slowly increase the applying force in the shown direction until the CD part comes out from the front panel.

2. Disconnect all responding cable wire.

3. REMOÇÃO DO MECANISMO DO DECK

1. Remove the four fixing screw on the cassette mechanism, the mechanism could be taken out. (see fig.5)

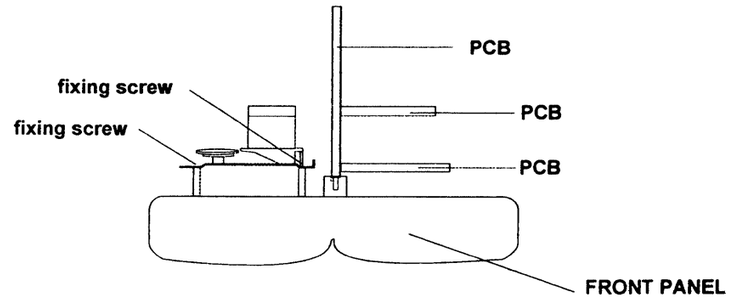
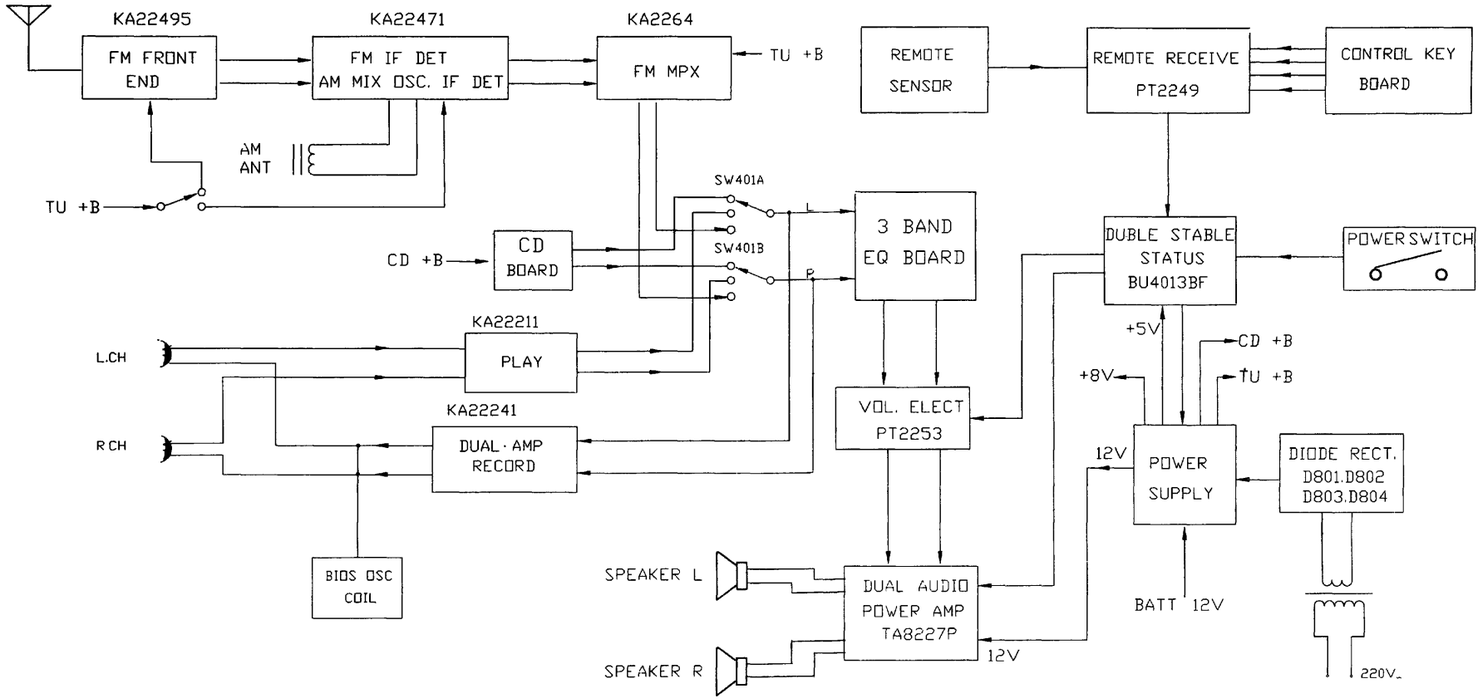


FIG. 5

DIAGRAMA DE BLOCOS



AJUSTES DO DECK

Adjustment	Cassette	SK	Deck 1	Measure on	Read on	Adjust with	Adjust to
Azimuth	10KHz	Cass.	Play	1252	mV meter	Left hand Screw R/PB Head	max.
Motor Speed	3150Hz	Cass.	Play	1252	Wow and flutter meter	Preset in motor	**a
Bias Frequenoy Alignment	/	Cass. SW402 at mid.	Record	◇A	Frequency Counter	T401	80 ± 0.2KHz

**a The maximum permissible speed deviation is ± 3%.
Morever, the wow and flutter value can be read.
This value shpuld not exceed 0.3%.

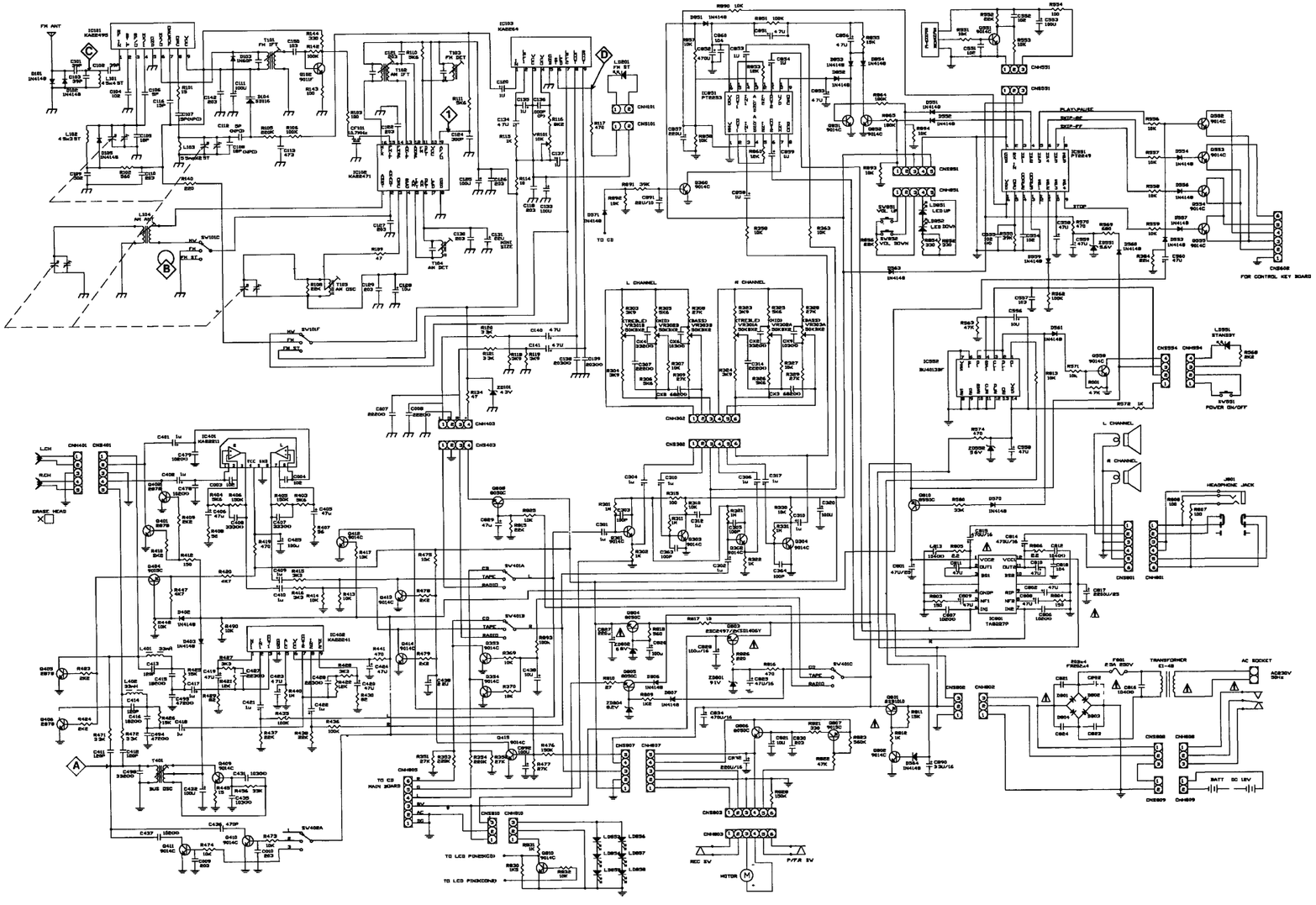
AJUSTES DO RADIO

AM IF						
AM or MW	468KHz	◇B	min.	5106 5108	◇1	max.
AM RF						
MW *	512KHz	◇B	max.	5105	◇1	max.
	1635KHz		min.	C4		
	550KHz			5102		max.
	1500KHz			C3		
FM IF						
FM #	10.7MHz					symm. max. lin.
FM RF						
FM #	75.7MHz	◇C	max.	5104	◇1	max
	108.25MHz		min.	C2		
	77MHz			5101		max
	106MHz			C1		
STEREO DECODER						
FM #	98MHz	◇C	92MHz		◇D	152 ± 1KHz

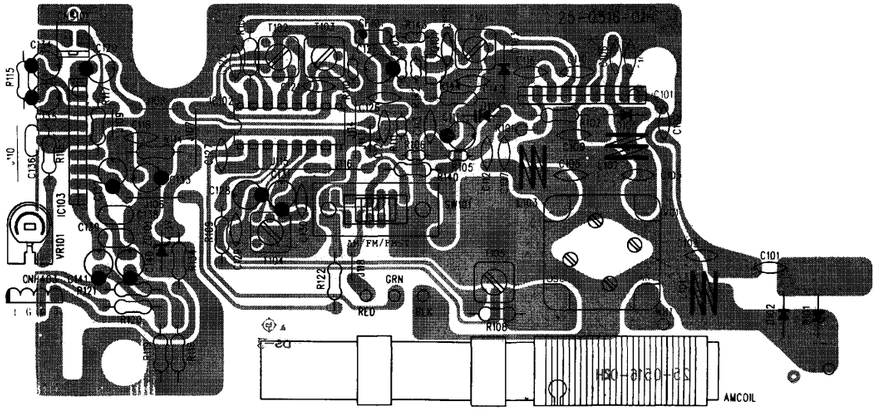
* Mod. 1KHz 30%
# 10nF + 15E

Repeat

DIAGRAMA ELÉTRICO - AM/FM



TUNING BOARD - AM/FM - LAYOUT DIAGRAM



IC101 KA22495		
PIN	FM	AM
1	0.8	0
2	1.6	0
3	2.8	0
4	1.5	0
5	0	0
6	3.3	0
7	2.5	0
8	3.2	0
9	3.3	0

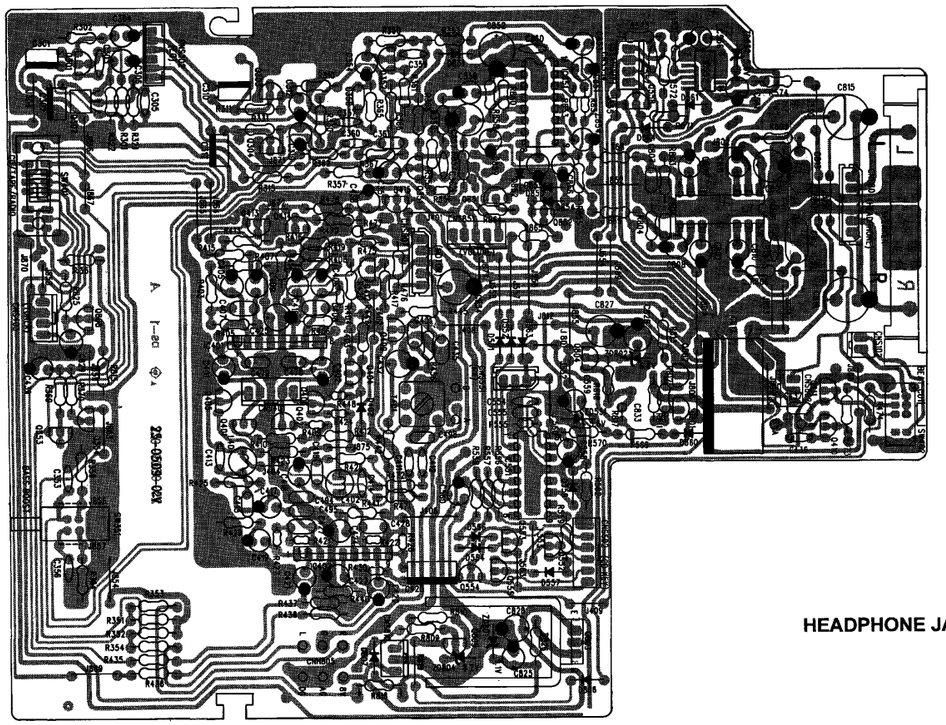
IC102 KA22471		
PIN	FM	AM
1	0.7	1.4
2	0	1.4
3	1.6	2.2
4	2.2	2.2
5	0.8	0.8
6	0.8	0.8
7	4.8	4.8
8	0	0
9	1.4	1.4
10	4.8	4.8
11	4.8	4.8
12	1.4	1.4
13	1.4	1.4
14	1.4	1.4
15	1.4	1.4
16	4.8	4.8

IC103 KA2264		
PIN	FM	AM
1	0.6	0.6
2	4	4.1
3	4.7	4.7
4	4.3	4.3
5	0	0
6	4.2	4.2
7	4.1	4.6
8	0.9	0.9
9	0.9	0.9

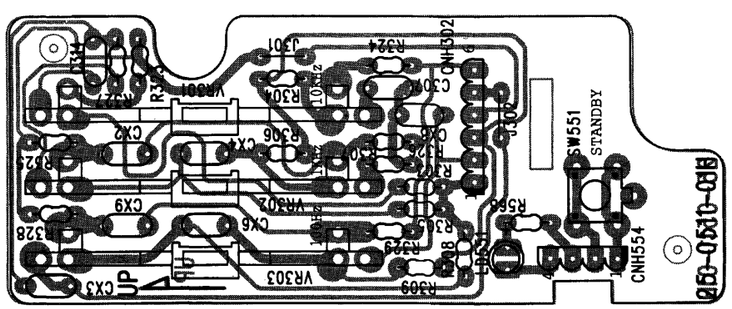
Q102	FM	AM
E	0.1	0
B	0.8	0.5
C	0.8	0.5

	Q351			Q352			Q404			Q405			Q406		
PIN	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E
Radio	1.8	0.6	0	1.7	0.6	0	5.9	5.6	5.6	0	0.7	0	0	0.7	0
Tape	1.8	0.6	0	1.7	0.6	0	1.9	1.9	1.3	0	0.7	0	0	0.7	0
CD	1.8	0.6	0	1.7	0.6	0	1.9	1.9	1.3	0	0.7	0	0	0.7	0
Record	1.8	0.6	0	1.7	0.6	0	5.8	5.8	5.5	-5.2	-3.9	0	-5.2	-3.9	0
	Q409			Q851			Q852			Q859			Q862		
PIN	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E
Radio	-3.8	4.3	0.2	5.7	0	0	5.5	0	0	1.2	0.2	0	0	0	0
Tape	1.5	0	0	5.7	0	0	5.6	0.1	0	0	0.6	0	0	0	0.6
CD	1.5	0	0	5.7	0	0	5.5	0	0	1.2	0	0	0.2	0	0
Record	-3.8	4.3	0.2	5.7	0	0	5.5	0	0	1.2	0	0	0	0.6	0

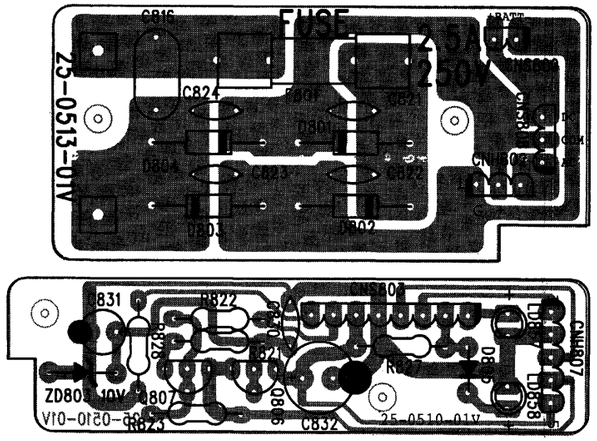
MAIN BOARD



EQUALIZER BOARD

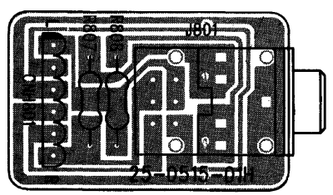


RECTIFIER BOARD

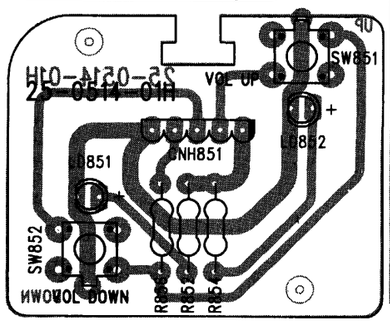


MOTOR CONTROL BOARD

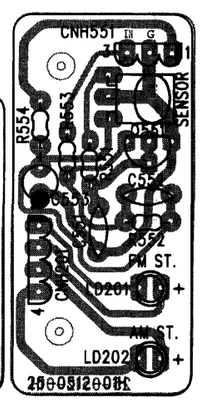
HEADPHONE JACK BOARD



VOLUME CONTROL BOARD



REMOTE SENSOR BOARD



IC801 TA8227P				
PIN	Radio	Tape	CD	Record
1	14	14	14	14
2	7.6	7.6	7.6	7.6
3	14	14	14	14
4	0	0	0	0
5	0.6	0.6	0.6	0.6
6	0	0	0	0
7	0	0	0	0
8	0.5	0.5	0.5	0.5
9	7.5	7.5	7.5	7.5
10	14	14	14	14
11	7.6	7.6	7.6	7.6
12	14	14	14	14

IC552 BU4013BF				
PIN	Radio	Tape	CD	Record
1	5.3	5.3	5.3	5.3
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0
9	0	0	0	0
10	5.5	5.5	5.5	5.5

IC851 PT2253A				
PIN	Radio	Tape	CD	Record
1	0	0	0	0
2	2.7	2.7	2.7	2.7
3	2.7	2.7	2.7	2.7
4	2.7	2.7	2.7	2.7
5	2.7	2.7	2.7	2.7
6	2.7	2.7	2.7	2.7
7	6	6	6	6
8	6	6	6	6
9	6	6	6	6
10	2.7	2.7	2.7	2.7
11	2.7	2.7	2.7	2.7
12	2.7	2.7	2.7	2.7
13	2.7	2.7	2.7	2.7
14	2.7	2.7	2.7	2.7
15	6	6	6	6
16	6	6	6	6

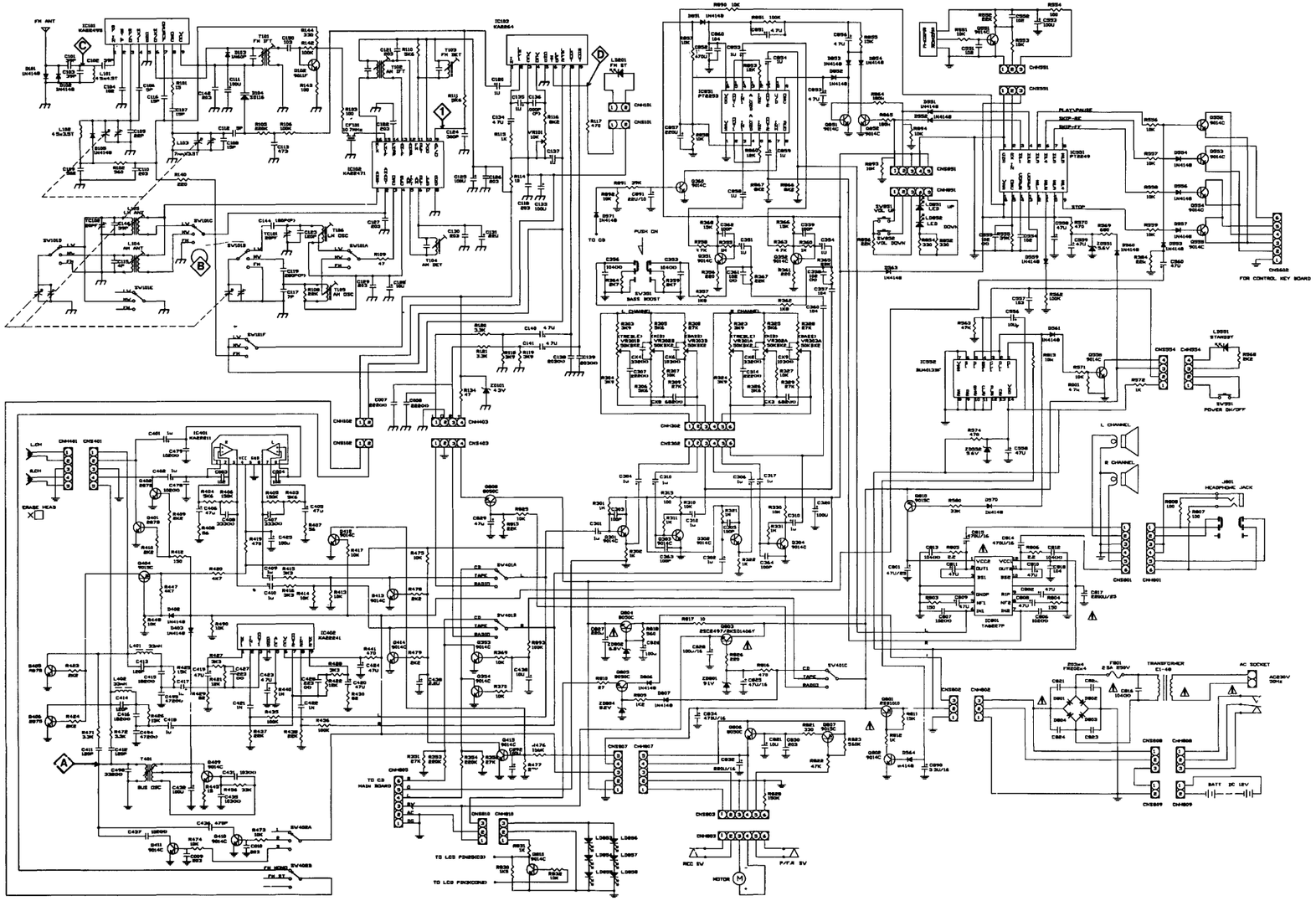
IC402 KA22241				
PIN	Radio	Tape	CD	Record
1	0.2	0.2	0.2	1.8
2	0	0	0	0
3	0.2	0.2	0.2	1.8
4	0	0	0	0
5	0	0	0	0
6	0	0	0	5
7	0.1	0.1	0.1	1.8
8	0	0	0	0
9	0.1	0.1	0.1	1.8

IC401 KA22211				
PIN	Radio	Tape	CD	Record
1	1.3	1.3	1.3	1.3
2	0.7	0.7	0.7	0.7
3	2	2	2	2
4	5.2	5.2	5.2	5.2
5	0	0	0	0
6	2	2	2	2
7	0.7	0.7	0.7	0.7
8	1.3	1.3	1.3	1.3

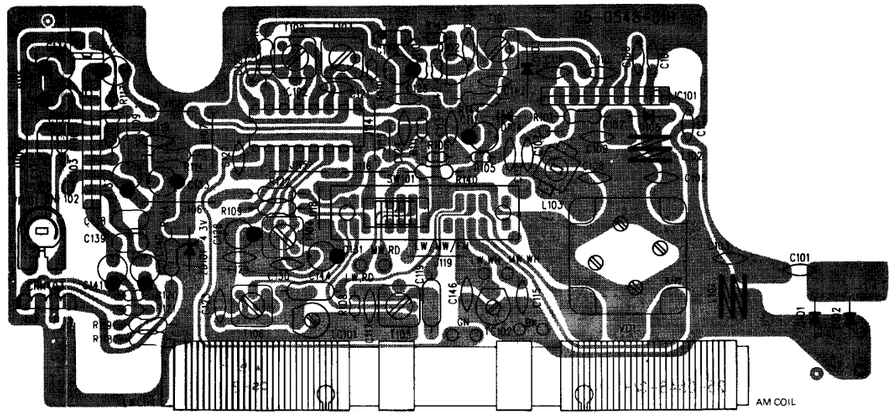
IC551 PT2249A				
PIN	Radio	Tape	CD	Record
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0
9	5.5	5.5	5.5	5.5
10	2.3	2.3	2.3	2.3
11	5.5	5.5	5.5	5.5
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	0	0	0	0
16	0	0	0	0

	Q410			Q411			Q552			Q553			Q554			Q555		
PIN	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E
Radio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tape	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CD	0	0	0	0	0	0	5	0	0	4.9	0	0	5	0	0	5	0	0
Record	2.4	0	0	-0.9	-0.3	0	0	0	0	4.9	0	0	0	0	0	0	0	0
	Q801			Q802			Q803			Q804			Q805			Q558		
PIN	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E
Radio	14.2	13.5	14.3	0	0.7	0	14.4	0.4	0	14.5	6.7	6.1	14	0.2	0	12.7	0	0
Tape	14.2	13.5	14.3	0	0.7	0	14.8	0.5	0	14.5	6.7	6.1	14	0.2	0	12.7	0	0
CD	14.2	13.5	14.3	0	0.7	0	14.3	8.7	8.1	14.5	6.7	6.1	14	8.1	7.4	12.7	0	0
Record	14.2	13.5	14.3	0	0.7	0	14.3	0.5	0	14.5	6.7	6.1	14	0.2	0	12.7	0	0
	Q303			Q304			Q401			Q402			Q808			Q854		
PIN	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E
Radio	2.2	0.6	0	2.1	0.6	0	0	0	0	0	0	0	14	8	7.4	0	1.3	0
Tape	2.2	0.6	0	2.1	0.6	0	0	0	0	0	0	0	14	0	0.5	0	0.7	0
CD	2.2	0.6	0	2.1	0.6	0	0	0	0	0	0	0	14	0	0.5	0	0.3	0
	Q855			Q857			Q858			Q860			Q861					
PIN	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E			
Radio	0	0.2	0	6	1.7	1.1	6	1.7	1.1	0	0.6	0	0	0.6	0			
Tape	0	0.7	0	6	1.7	1.1	6	1.7	1.1	0	0.6	-0	0	0.6	0			
CD	0	0.3	0	6	1.7	1.1	6	1.7	1.1	0	0.6	0	0	0.6	0			

DIAGRAMA ELÉTRICO - F / M / L



TUNING BOARD - F/M/L - LAYOUT DIAGRAM



IC101 KA22495		
PIN	FM	AM
1	08	0
2	16	0
3	28	0
4	15	0
5	0	0
6	33	0
7	25	0
8	32	0
9	33	0

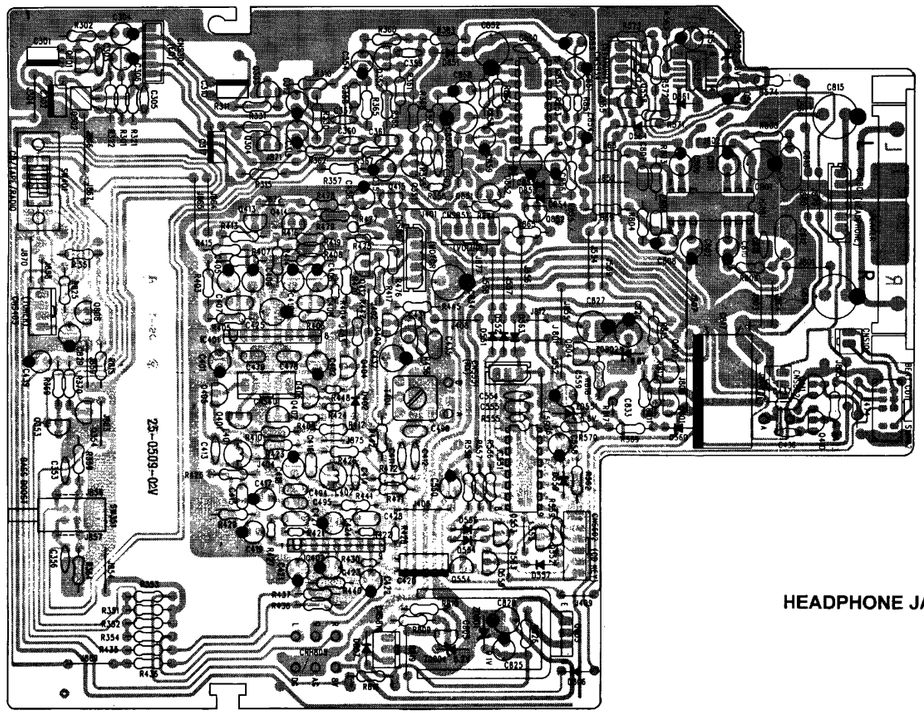
IC102 KA22471		
PIN	FM	AM
1	07	14
2	0	14
3	16	22
4	22	22
5	08	08
6	08	08
7	48	48
8	0	0
9	14	14
10	48	48
11	48	48
12	14	14
13	14	14
14	14	14
15	14	14
16	48	48

IC103 KA2264		
PIN	FM	AM
1	06	06
2	4	41
3	47	47
4	43	43
5	0	0
6	42	42
7	41	46
8	09	09
9	09	09

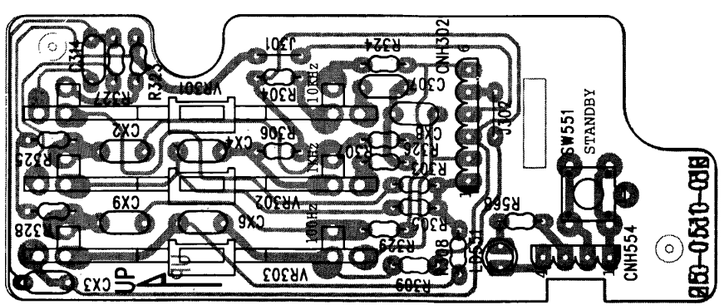
Q102	FM	AM
E	01	0
B	08	05
C	08	05

	Q351			Q352			Q404			Q405			Q406		
PIN	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E
Radio	18	06	0	17	06	0	59	56	56	0	07	0	0	07	0
Tape	18	06	0	17	06	0	19	19	13	0	07	0	0	07	0
CD	18	06	0	17	06	0	19	19	13	0	07	0	0	07	0
Record	18	06	0	17	06	0	58	58	55	-52	-39	0	-52	-39	0
	Q409			Q851			Q852			Q859			Q862		
PIN	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E
Radio	-38	43	02	57	0	0	55	0	0	12	02	0	0	0	0
Tape	15	0	0	57	0	0	56	01	0	0	06	0	0	0	06
CD	15	0	0	57	0	0	55	0	0	12	0	0	02	0	0
Record	-38	43	02	57	0	0	55	0	0	12	0	0	0	06	0

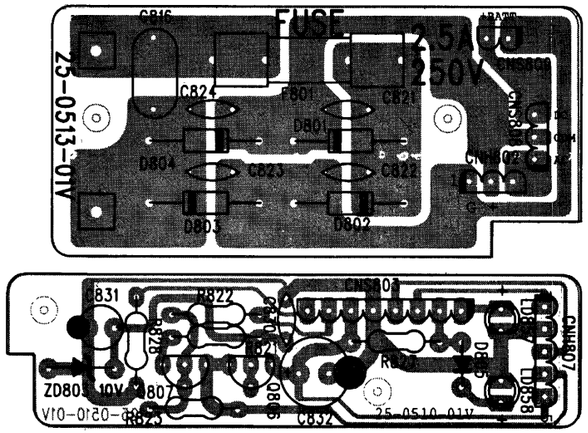
MAIN BOARD



EQUALIZER BOARD

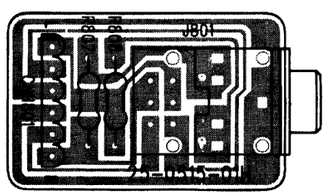


RECTIFIER BOARD

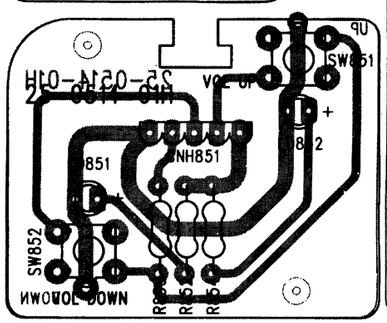


MOTOR CONTROL BOARD

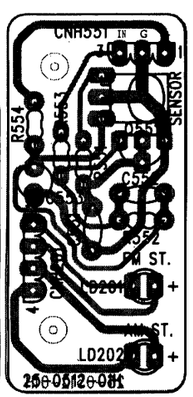
HEADPHONE JACK BOARD



VOLUME CONTROL BOARD



REMOTE SENSOR BOARD



IC801 TA8227P				
PIN	Radio	Tape	CD	Record
1	14	14	14	14
2	7.6	7.6	7.6	7.6
3	14	14	14	14
4	0	0	0	0
5	0.6	0.6	0.6	0.6
6	0	0	0	0
7	0	0	0	0
8	0.5	0.5	0.5	0.5
9	7.5	7.5	7.5	7.5
10	14	14	14	14
11	7.6	7.6	7.6	7.6
12	14	14	14	14

IC552 BU4013BF				
PIN	Radio	Tape	CD	Record
1	5.3	5.3	5.3	5.3
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0
9	0	0	0	0
10	5.5	5.5	5.5	5.5

IC851 PT2253A				
PIN	Radio	Tape	CD	Record
1	0	0	0	0
2	2.7	2.7	2.7	2.7
3	2.7	2.7	2.7	2.7
4	2.7	2.7	2.7	2.7
5	2.7	2.7	2.7	2.7
6	2.7	2.7	2.7	2.7
7	6	6	6	6
8	6	6	6	6
9	6	6	6	6
10	2.7	2.7	2.7	2.7
11	2.7	2.7	2.7	2.7
12	2.7	2.7	2.7	2.7
13	2.7	2.7	2.7	2.7
14	2.7	2.7	2.7	2.7
15	6	6	6	6
16	6	6	6	6

IC402 KA22241				
PIN	Radio	Tape	CD	Record
1	0.2	0.2	0.2	1.8
2	0	0	0	0
3	0.2	0.2	0.2	1.8
4	0	0	0	0
5	0	0	0	0
6	0	0	0	5
7	0.1	0.1	0.1	1.8
8	0	0	0	0
9	0.1	0.1	0.1	1.8

IC401 KA22211				
PIN	Radio	Tape	CD	Record
1	1.3	1.3	1.3	1.3
2	0.7	0.7	0.7	0.7
3	2	2	2	2
4	5.2	5.2	5.2	5.2
5	0	0	0	0
6	2	2	2	2
7	0.7	0.7	0.7	0.7
8	1.3	1.3	1.3	1.3

IC551 PT2249A				
PIN	Radio	Tape	CD	Record
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0
9	5.5	5.5	5.5	5.5
10	2.3	2.3	2.3	2.3
11	5.5	5.5	5.5	5.5
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	0	0	0	0
16	0	0	0	0

	Q410			Q411			Q552			Q553			Q554			Q555		
PIN	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E
Radio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tape	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CD	0	0	0	0	0	0	5	0	0	4.9	0	0	5	0	0	5	0	0
Record	2.4	0	0	-0.9	-0.3	0	0	0	0	4.9	0	0	0	0	0	0	0	0
	Q801			Q802			Q803			Q804			Q805			Q556		
PIN	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E
Radio	14.2	13.5	14.3	0	0.7	0	14.4	0.4	0	14.5	6.7	6.1	14	0.2	0	12.7	0	0
Tape	14.2	13.5	14.3	0	0.7	0	14.8	0.5	0	14.5	6.7	6.1	14	0.2	0	12.7	0	0
CD	14.2	13.5	14.3	0	0.7	0	14.3	8.7	8.1	14.5	6.7	6.1	14	8.1	7.4	12.7	0	0
Record	14.2	13.5	14.3	0	0.7	0	14.3	0.5	0	14.5	6.7	6.1	14	0.2	0	12.7	0	0
	Q303			Q304			Q401			Q402			Q808			Q854		
PIN	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E
Radio	2.2	0.6	0	2.1	0.6	0	0	0	0	0	0	0	14	8	7.4	0	1.3	0
Tape	2.2	0.6	0	2.1	0.6	0	0	0	0	0	0	0	14	0	0.5	0	0.7	0
CD	2.2	0.6	0	2.1	0.6	0	0	0	0	0	0	0	14	0	0.5	0	0.3	0
	Q855			Q857			Q858			Q860			Q861					
PIN	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E			

DIAGRAMA DE BLOCOS - CD

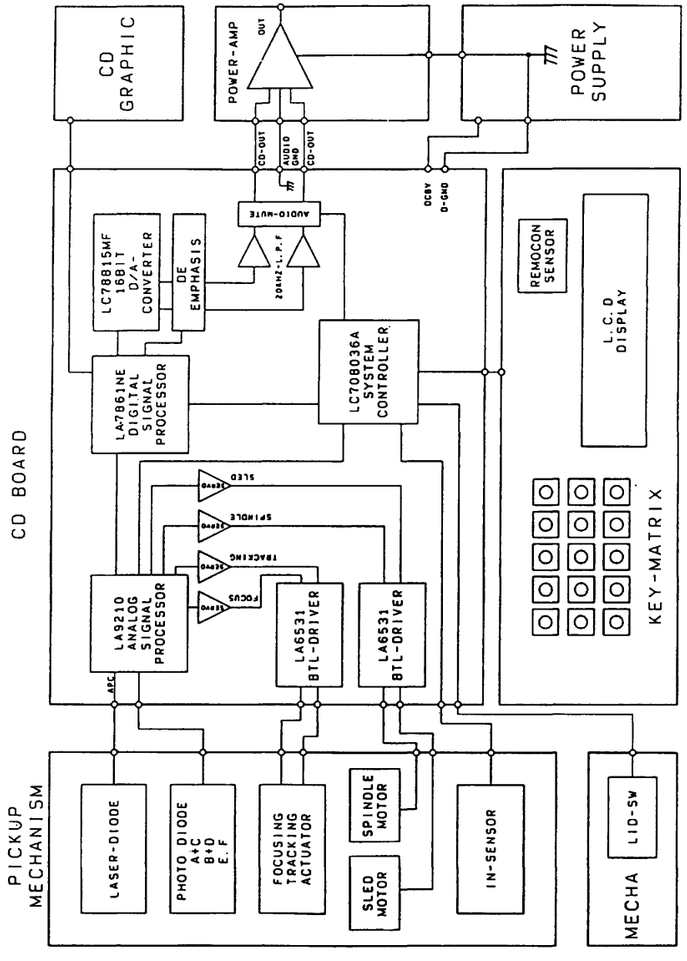
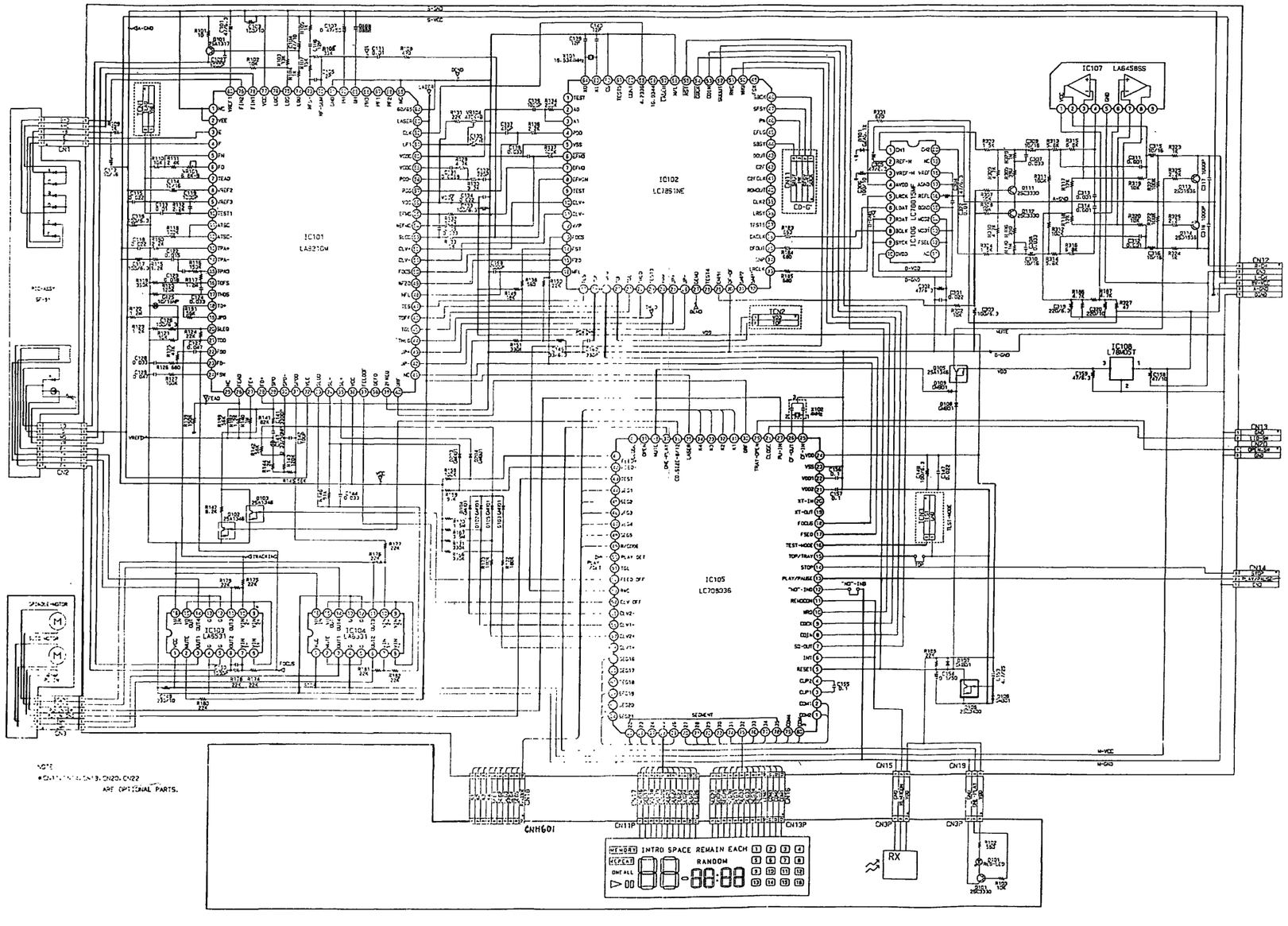
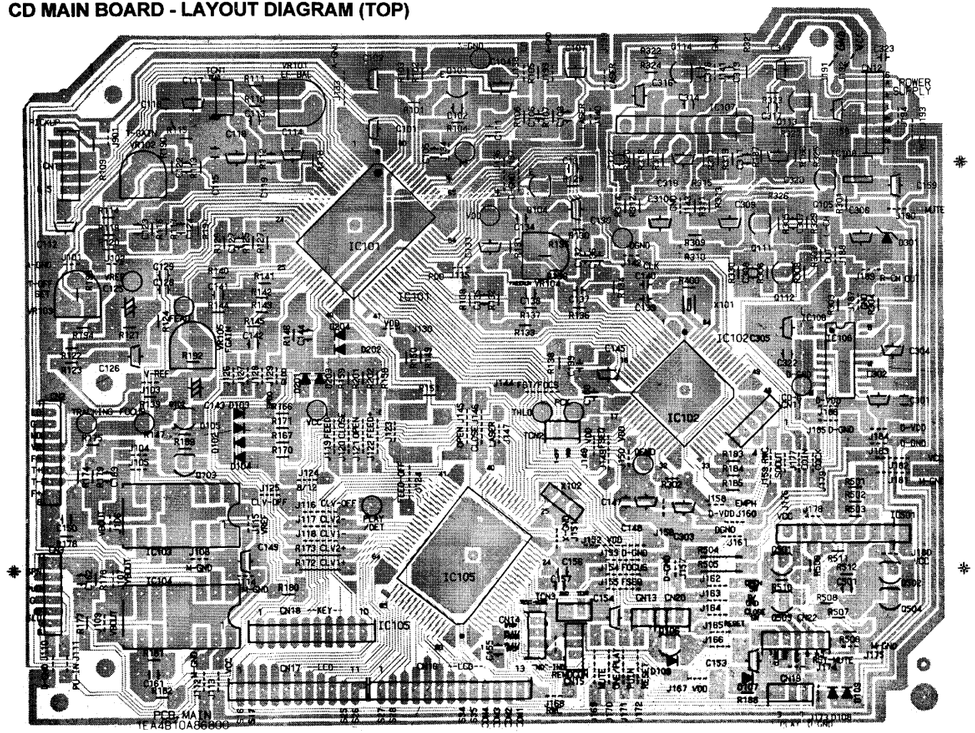


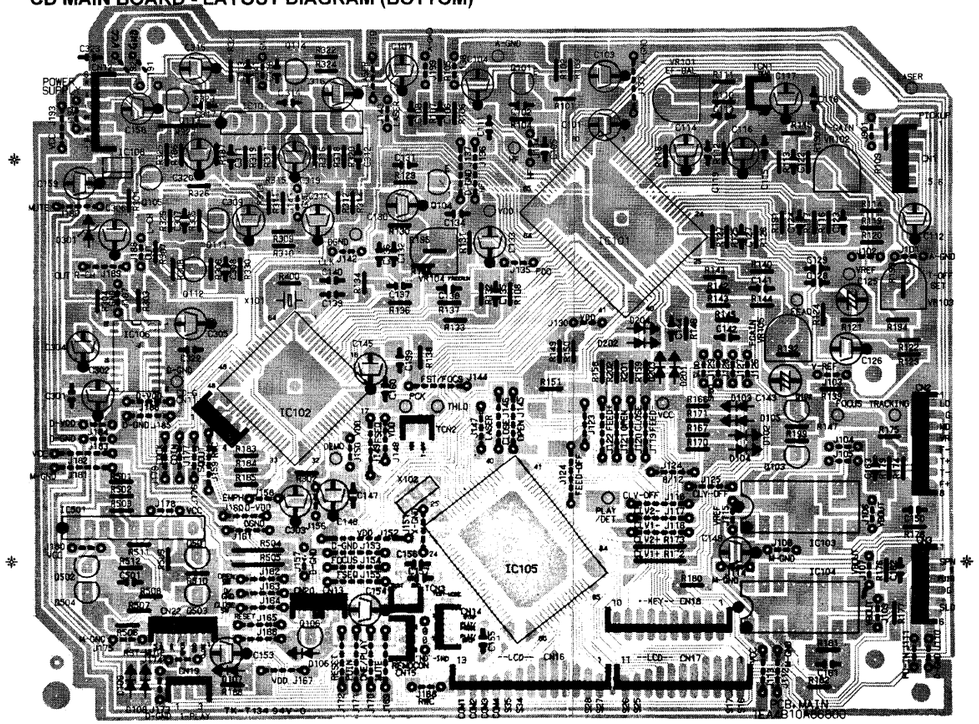
DIAGRAMA ELÉTRICO - CD



CD MAIN BOARD - LAYOUT DIAGRAM (TOP)



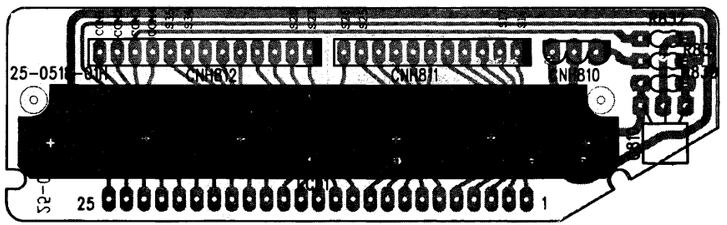
CD MAIN BOARD - LAYOUT DIAGRAM (BOTTOM)



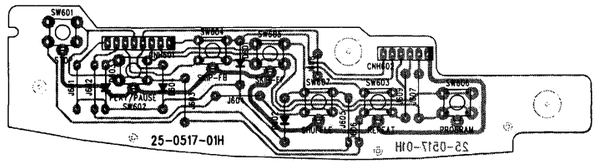
IC 101			LA9210				
PIN	VOLT	PIN	VOLT	PIN	VOLT	PIN	VOLT
1	0	21	4 2	41	0	61	2 4
2	0	22	4 2	42	0	62	2 5
3	4 1	23	4 1	43	0	63	5
4	4	24	4 1	44	0	64	0
5	4 1	25	0	45	5	65	0
6	4 1	26	4 1	46	5	66	2
7	4 1	27	2 7	47	0 5	67	1 5
8	4 1	28	2 6	48	4 7	68	1 6
9	4 1	29	4 1	49	4 7	69	1 3
10	2 4	30	4 1	50	0	70	1 3
11	2 5	31	0	51	0	71	0
12	2 5	32	0	52	0	72	1 3
13	4 1	33	4 2	53	2 4	73	1 6
14	4 1	34	4 1	54	2 3	74	8
15	4 1	35	4 1	55	2 3	75	0
16	4 1	36	8 1	56	5	76	8
17	4 1	37	4 9	57	2 5	77	8
18	4 1	38	0	58	2 5	78	1 6
19	4 1	39	0	59	2 5	79	1 6
20	4 1	40	0 1	60	3 7	80	1 6

IC 102			LC7861NE				
PIN	VOLT	PIN	VOLT	PIN	VOLT	PIN	VOLT
1	0	21	5	41	0	61	0
2	2 1	22	0	42	5	62	0
3	2 2	23	0	43	2 5	63	2 2
4	2 5	24	5	44	0 1	64	2 2
5	0	25	0	45	2 2		
6	2 3	26	0	46	0 3		
7	2 4	27	0	47	2 5		
8	2 5	28	0	48	0		
9	0	29	5	49	2 5		
10	0	30	0	50	0		
11	0	31	1 1	51	0		
12	5	32	1 1	52	0		
13	0	33	2 5	53	0		
14	2 7	34	2 1	54	5		
15	4 7	35	0	55	0 2		
16	4 7	36	2 5	56	0		
17	0 5	37	0	57	0		
18	1 8	38	2 4	58	2 2		
19	0	39	2 5	59	2 5		
20	5	40	1 9	60	0		

DIAPLAY BOARD - LAYOUT DIAGRAM



CD CONTROL KEY BOARD - LAYOUT DIAGRAM



PIN	Q101	Q102	Q103	Q105	Q106	Q111	Q112	Q113	Q114
E	8 1	4 1	4 1	5	0	0	0	0	0
B	8	0 1	5	0 5	0	0 6	0 6	0 7	0 4
C	0	4 1	4 1	5	5	0	0	0	0

IC103	
PIN	VOLT
1	8
2	1 1
3	0 4
4	0
5	0
6	0 5
7	2 3
8	0
9	0
10	2 3
11	0 5
12	0
13	0
14	0 5
15	0
16	4 1

IC104	
PIN	VOLT
1	8
2	0
3	4 1
4	0
5	0
6	4
7	4 1
8	4 1
9	4 1
10	4 1
11	4 1
12	0
13	0
14	4 1
15	4 1
16	4 1

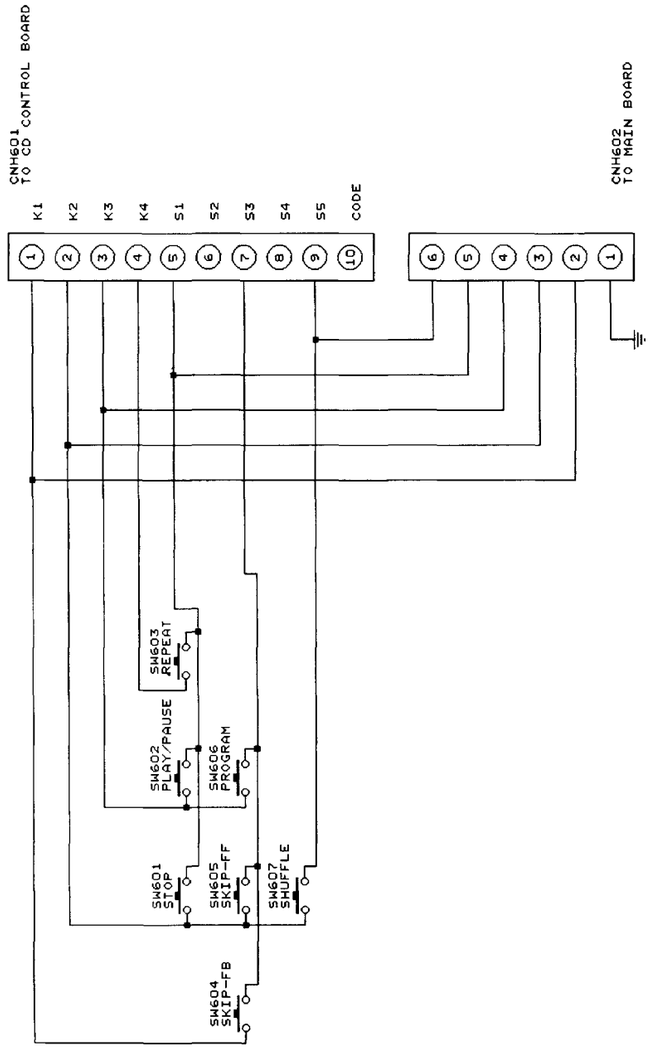
IC106	
PIN	VOLT
1	2 1
2	0
3	5
4	5
5	2 5
6	0
7	0
8	2 6
9	0
10	5
11	0
12	5
13	0
14	5
15	0
16	0 5
17	0
18	0
19	0
20	2 1

IC107	
PIN	VOLT
1	0
2	4
3	0
4	0
5	0
6	0
7	4
8	4
9	8

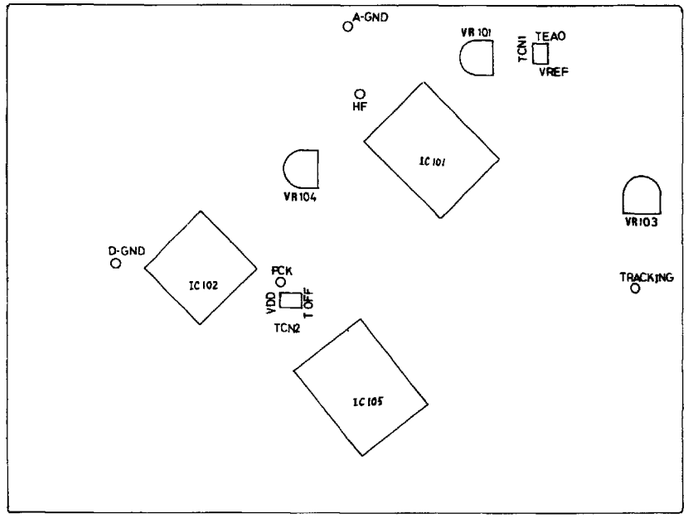
IC108	
PIN	VOLT
1	8
2	4
3	5

IC 105			LC708036				
PIN	VOLT	PIN	VOLT	PIN	VOLT	PIN	VOLT
1	2 4	21	1 6	41	0	61	2 5
2	2 4	22	3 2	42	0	62	2 5
3	2	23	0	43	0	63	2 5
4	3 7	24	5	44	0	64	2 5
5	5	25	2 1	45	0	65	2 5
6	5	26	2 5	46	0	66	2 5
7	0	27	5	47	0	67	2 5
8	0	28	0	48	0	68	2 5
9	5	29	5	49	0	69	2 5
10	0	30	0 1	50	5	70	2 5
11	5	31	5	51	0	71	2 5
12	0	32	5	52	5	72	2 5
13	5	33	5	53	0	73	2 5
14	5	34	5 8	54	5	74	2 5
15	0	35	5	55	0	75	2 5
16	5	36	5	56	0	76	2 5
17	0	37	0	57	5 4	77	2 5
18	0	38	0	58	5 4	78	2 5
19	5	39	0	59	2 4	79	2 3
20	0	40	0	60	2 5	80	2 3

DIAGRAMA ELÉTRICO - PLACA DO DISPLAY

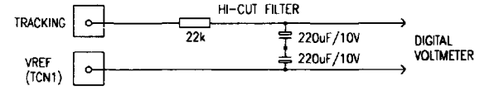
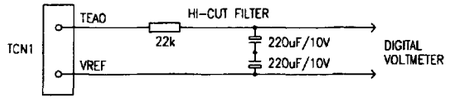


AJUSTES - CD



OPEN mode .
The main PCB Assembly is connected with various connectors as per the wiring diagram
At this time, the CN-13 (Lid Switch) is left in the open condition

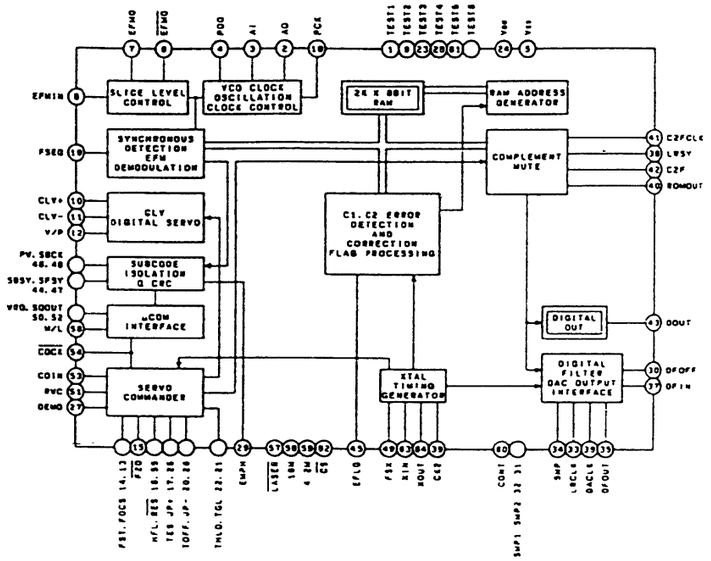
PLAY mode .
The main PCB Assembly is connected with various connectors as per the wiring diagram
At this time, the CN-13 (Lid Switch) is left in the short condition

ALIGNMENT	MODE	SHORT CIRCUIT (1)	INSTRUMENT CONNECTION	ADJUST	ADJUSTING PROCEDURE
RF PLL VCO	OPEN	Short "HF" to "A-GND" with a 0 1μF capacitor	Connect frequency counter to "PCK" and "D-GND" (ground)	VR104	Frequency at PCK = 4 3218 MHz ± 5 kHz
TRACKING OFFSET	OPEN	Connect "T-OFF" (TCN2) to "D-GND"	Connect digital voltmeter to TP "TRACKING" and TP "VREF" (TCN1) through hi-cut filter 	VR103	Voltage at TP-TRACKING (pin 21 of IC101) comes to within 0V ±30mV
E/F BALANCE	PLAY	Short "T-OFF" and "VDD" of TCN2	Connect digital voltmeter to "TEAO" and "VREF" (of TCN1) through hi-cut filter 	VR101	E/F voltage enters the range of ±25mV ±25mV

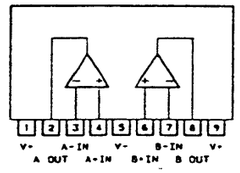
When the adjustment has been completed, disconnect all the short-circuit bridges

IC SPECIFICATIONS

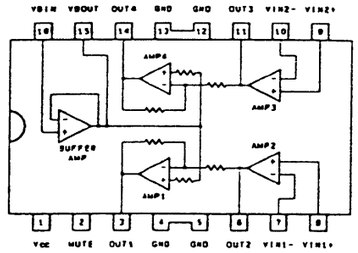
LC7861NE BLOCK DIAGRAM



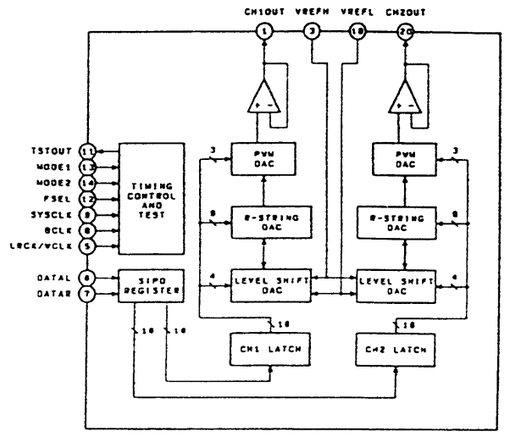
LA6458S BLOCK DIAGRAM



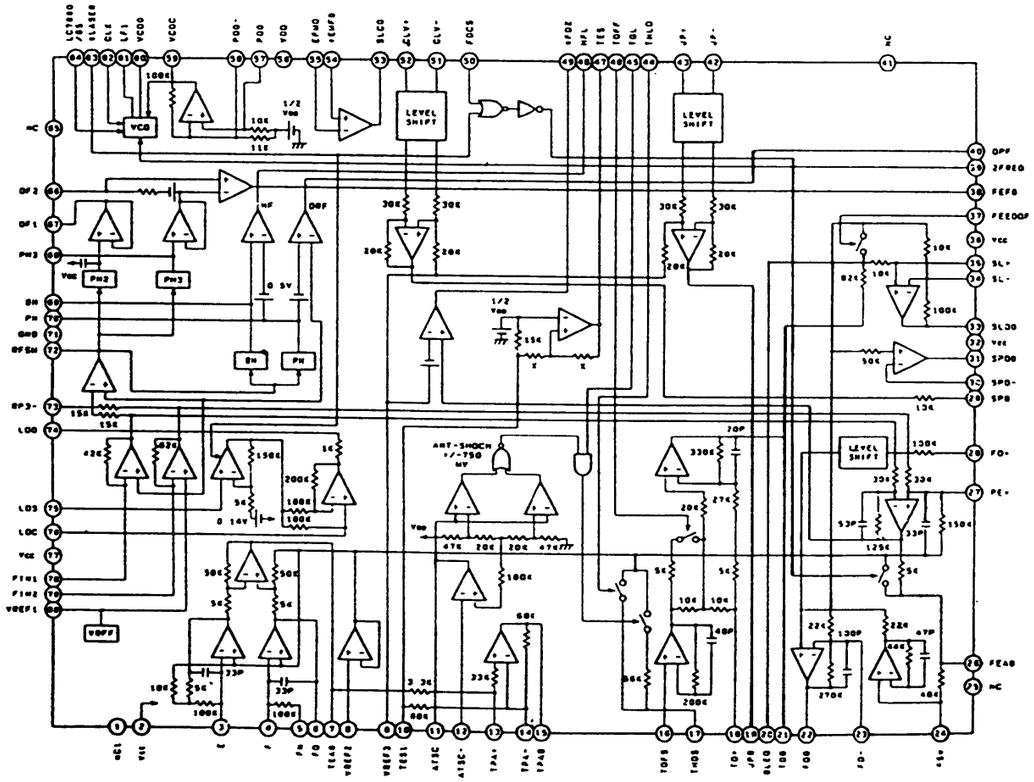
LA6531 BLOCK DIAGRAM



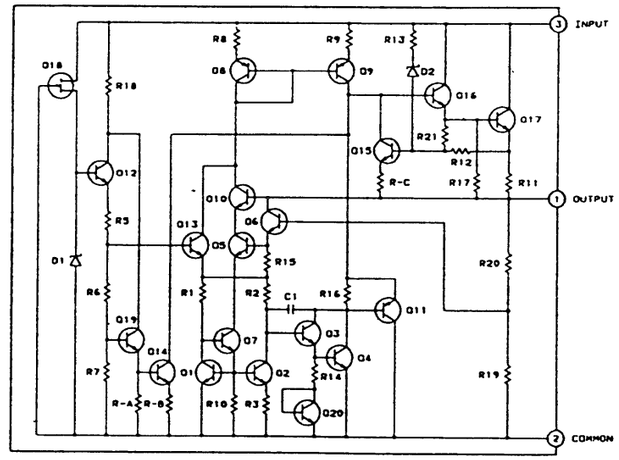
LC78815MF BLOCK DIAGRAM



LA9210M BLOCK DIAGRAM



NJM7808FA BLOCK DIAGRAM



L78M05T BLOCK DIAGRAM

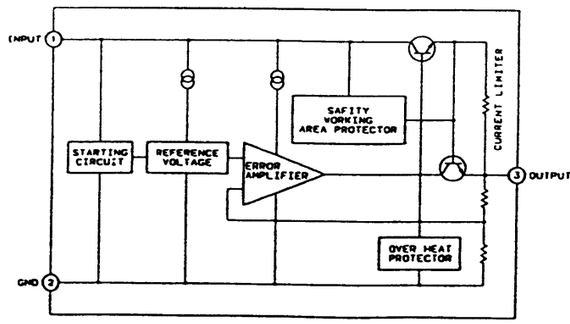
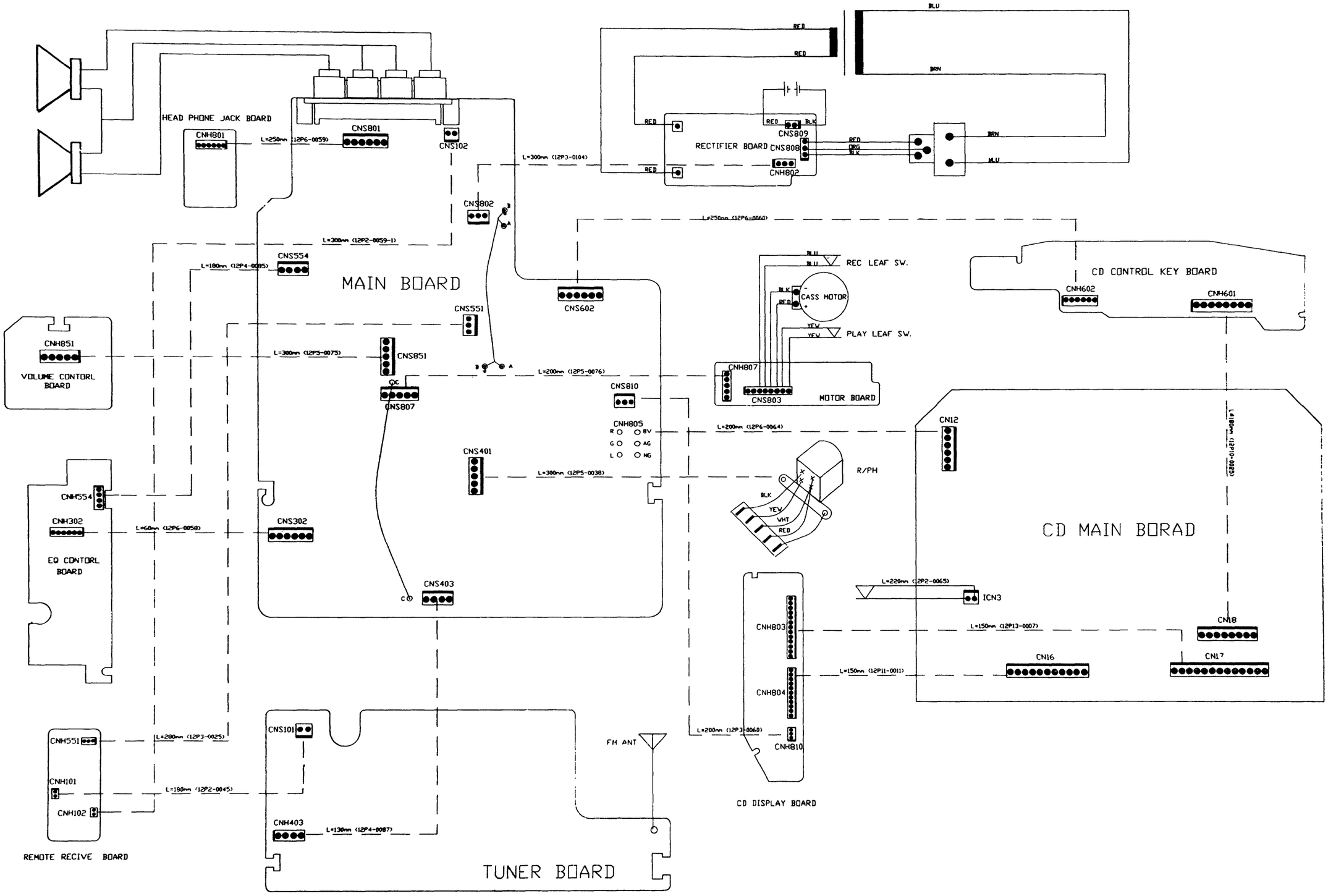
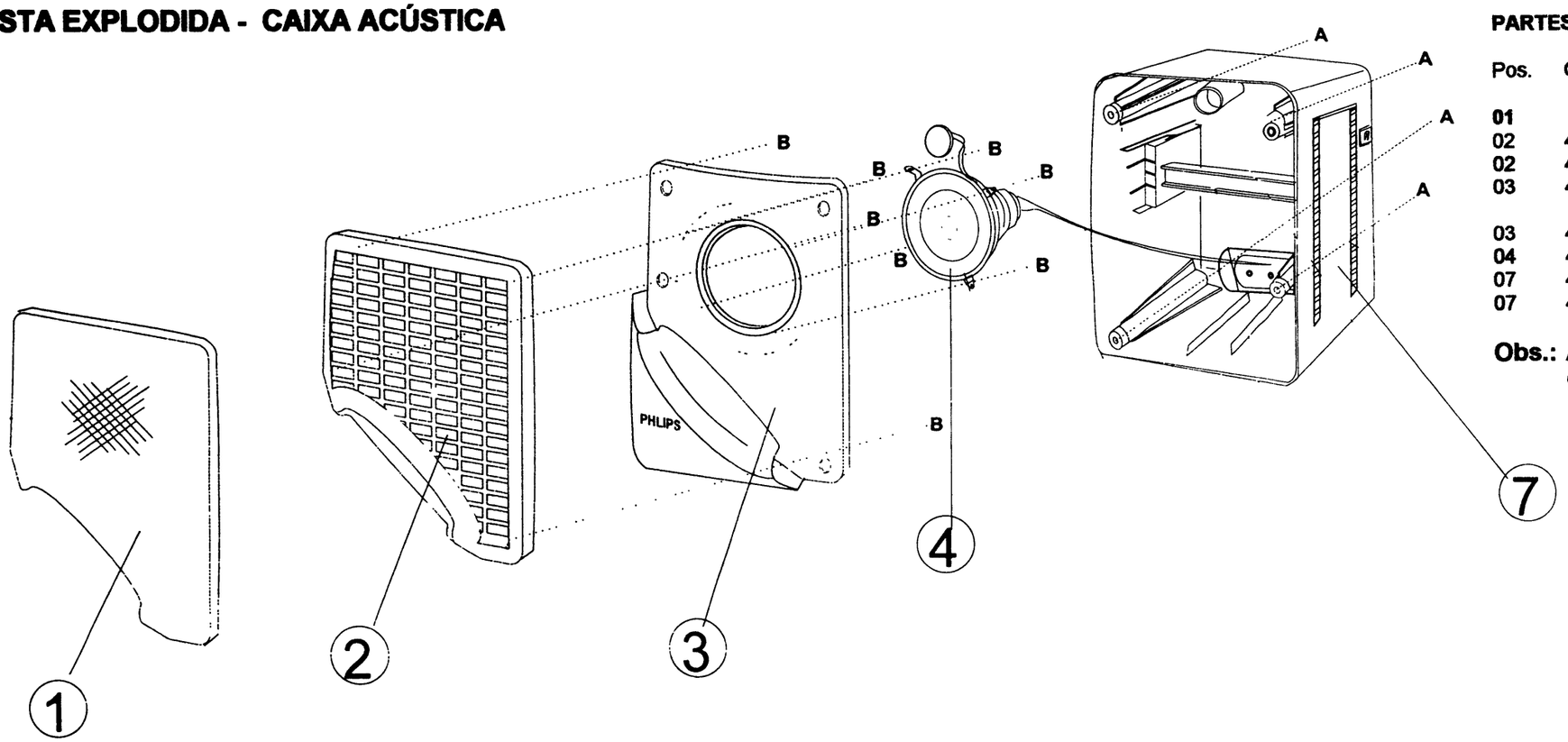


DIAGRAMA DE FIAÇÃO



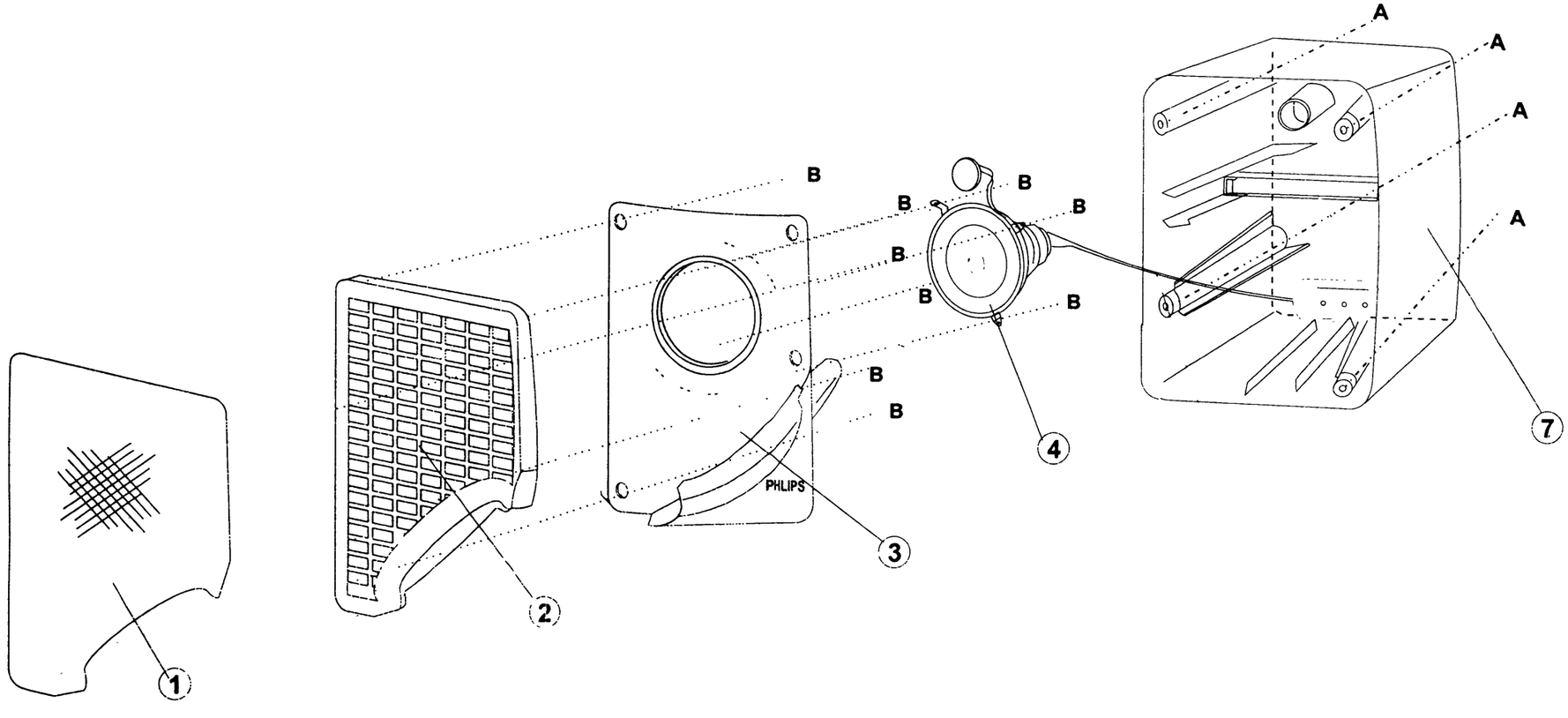
VISTA EXPLODIDA - CAIXA ACÚSTICA



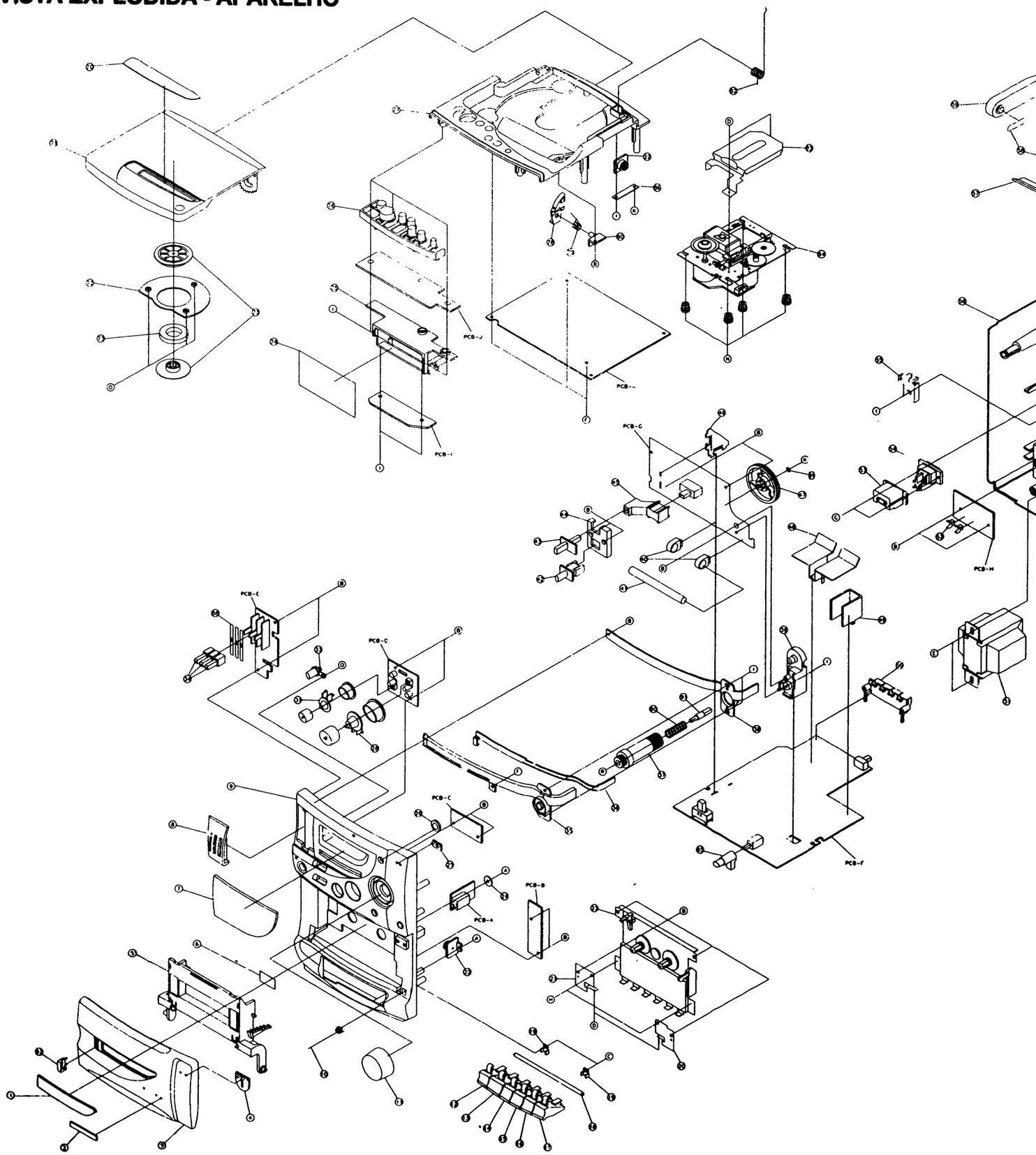
PARTES MECÂNICAS DA CAIXA ACÚSTICA

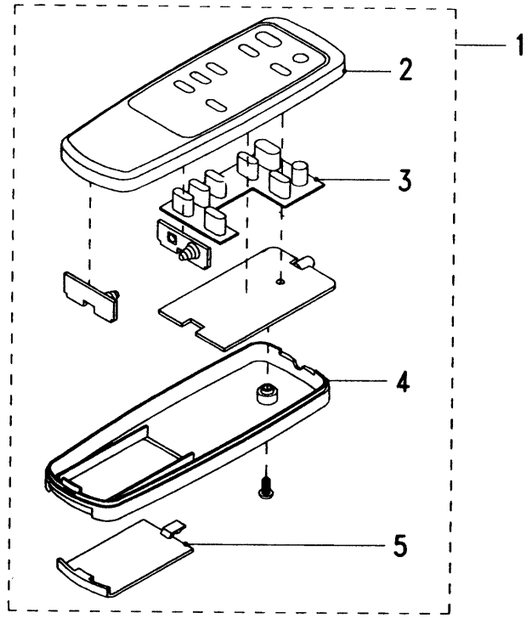
Pos.	Código	Descrição
01		**Sem condições de fornecimento**
02	4822 445 10466	Telar p/ falante (L)
02	4822 445 10465	Telar p/ falante (R)
03	4822 445 30276	Gabinete frontal (L)
03	4822 445 30277	Gabinete frontal (R)
04	4822 240 30759	Falante 4" - 4Ω (L) e (R)
07	4822 445 40133	Gabinete traseiro (L)
07	4822 445 40134	Gabinete traseiro (R)

Obs.: As **peças** relacionadas acima, são as **únicas disponíveis** para **reposição no SERVICE.**



VISTA EXPLODIDA - APARELHO





PARTES MECÂNICAS DO CONTROLE REMOTO

Pos.	Código	Descrição
01	4822 218 10587	Controle Remoto
02		**Sem condições de fornecimento**
03	4822 410 63712	Manta p/ contato (R/C)
04		**Sem condições de fornecimento**
05	4822 423 41279	Tampa da bateria

Obs.: As **peças** relacionadas acima, são as **únicas disponíveis** para **reposição** no **SERVICE.**

PARTES MECÂNICAS DO GABINETE

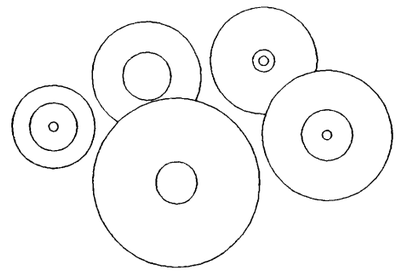
Pos.	Código	Descrição
	4806 321 17067	Cabo de rede
01	4822 381 11626	Lente p/ tampa K7
02		**Sem condições de fornecimento**
03	4822 443 64519	Tampa K7
04		**Sem condições de fornecimento**
05	4822 464 70666	Lente p/ tampa do CD
06		**Sem condições de fornecimento**
07	4822 381 11625	Lente p/ LCD
08		**Sem condições de fornecimento**
09	4822 423 51211	Gabinete frontal
10	4822 492 42778	Mola p/ tampa K7
11	4822 413 51511	Botão "TUNING"
12	4822 410 63833	Botão "REC"
13	4822 410 63834	Botão "PLAY"
14	4822 410 63838	Botão "REW"
15	4822 410 63835	Botão "F.F."
16	4822 410 63836	Botão "ST/EJ"
17	4822 410 63837	Botão "PAUSE"
18		**Sem condições de fornecimento**
20		**Sem condições de fornecimento**
21		**Sem condições de fornecimento**
22	4822 529 10317	Hidráulico p/ tampa K7
23		**Sem condições de fornecimento**
24		**Sem condições de fornecimento**
25		**Sem condições de fornecimento**
26		**Sem condições de fornecimento**
28	4822 411 62035	Botão "VOLUME (1)"
31	4822 411 62037	Botão "VOLUME (2)"
33	4822 410 63831	Botão "POWER"
34	4822 410 63829	Botão "EQ"
35		**Sem condições de fornecimento**
36	4822 450 81229	Ponteiro de sintonia
37		**Sem condições de fornecimento**
38		**Sem condições de fornecimento**
39		**Sem condições de fornecimento**
40		**Sem condições de fornecimento**
41		**Sem condições de fornecimento**
42	4822 413 41917	Botão p/ mudança de função
43	4822 411 62036	Botão "BAND"
44		**Sem condições de fornecimento**
45		**Sem condições de fornecimento**
46		**Sem condições de fornecimento**
47	4822 522 33577	Engrenagem p/ botão de sintonia
48		**Sem condições de fornecimento**
49		**Sem condições de fornecimento**
50	4822 276 40427	Conector p/ caixa acústica (4 terminais)
51	4822 146 31494	Transformador de rede (110/220V)
52		**Sem condições de fornecimento**
53		**Sem condições de fornecimento**
54	4822 267 31931	Soquete de rede
55		**Sem condições de fornecimento**
56		**Sem condições de fornecimento**
57	4822 498 91049	Cobertura p/ alça
58	4822 492 71707	Mola p/ alça
59	4822 498 10542	Alça
60	4822 303 30493	Antena telescópica
61		**Sem condições de fornecimento**
63	4822 290 81717	Contato p/ bateria (+/-)
64	4822 426 60659	Tampa da bateria
65	4822 290 81715	Contato p/ bateria (+ ve)
66	4822 290 81716	Contato p/ bateria (- ve)
67	4822 426 60661	Tampa p/ bateria (L)
68	4822 426 60662	Tampa p/ bateria (R)
69		**Sem condições de fornecimento**
70	4822 381 11624	Lente p/ tampa do CD
71	4822 444 61072	Tampa p/ CD
72	4822 444 61073	Cobertura p/ tampa do CD
73	4822 526 20222	Presilha magnética
74		**Sem condições de fornecimento**
75		**Sem condições de fornecimento**
76	4822 413 41918	Botão p/ controle do CD
77	4822 426 40464	Parte superior do gabinete
78	4822 402 61559	Suporte do hidráulico p/ tampa do CD
79	4822 492 71708	Mola p/ a tampa do CD
80	4822 535 93556	Suporte p/ mola
82	4822 492 52428	Mola da tampa CD
85		**Sem condições de fornecimento**
86		**Sem condições de fornecimento**
87		**Sem condições de fornecimento**
88		**Sem condições de fornecimento**
89		**Sem condições de fornecimento**
90		**Sem condições de fornecimento**
91		**Sem condições de fornecimento**
92	4822 443 64521	Cobertura p/ tampa K7
	4822 410 63832	Botão "DBB"
	4822 462 42212	Pés
	4822 466 93504	Amortecedor (CD)
	4822 466 93498	Amortecedor (duro)
	4822 466 93499	Amortecedor (macio)
	4822 691 30363	**CDM** (CD90V1Q)

Obs.: As **peças** relacionadas acima, são as **únicas disponíveis** para **reposição no SERVICE.**

PARTES MECÂNICAS DO DECK (CDS-83FBF)

Pos.	Código	Descrição
11	4822 528 70695	Rolo pressor
74	4822 403 30792	Alavanca EJECT
106	4822 358 31325	Correia p/ volante (1.2x45.2)
107	4822 358 31324	Correia pequena
110	4822 278 90663	Chave Leaf
111	4822 249 10413	Cabeça gravadora/reprodutora
112	4822 249 40306	Cabeça apagadora (PH-K380-MSI)
115	4822 361 21656	Motor (ED-530AD-9B)
116	4822 691 21038	DECK montado

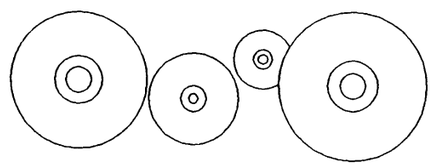
CDS-83FBF



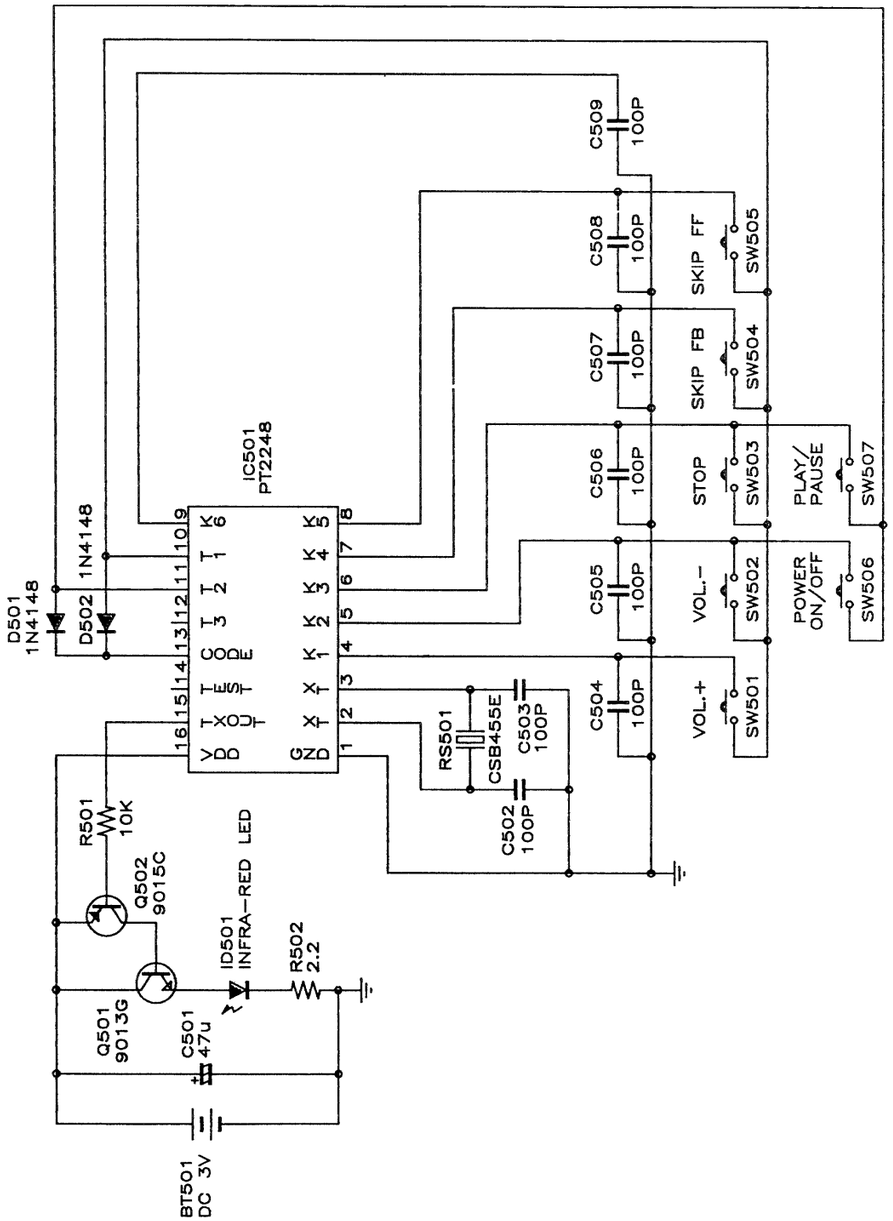
PARTES MECÂNICAS DO DECK (TK20FX-S)

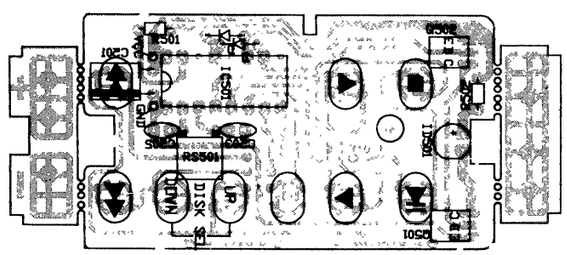
Pos.	Código	Descrição
	4822 691 21072	DECK montado
23	4822 278 90596	Chave leaf
32	4822 403 20244	Rolo pressor
41	4822 358 31345	Correia F.F.
54	4822 528 81565	Polia p/ motor
55	4822 358 31344	Correia grande
58	4822 403 71315	Alavanca EJECT
62	4822 249 10397	Cabeça R/P (MS15R-AA2N1)
63	4822 249 40286	Cabeça apagadora (PH-K380)
64	4822 361 21656	Motor (EG-530AD-9B)

TK20-FX-S



CONTROLE REMOTO





LISTA ELÉTRICA

PAINEL CD

RESISTORES

Pos.	Código	Descrição
VR101	4822 100 12273	Semi-fix. VR B 6.8K
VR103	4822 100 12271	Semi-fix. VR B100K
VR103	4822 100 12272	Semi-fix VR B470K

TRANSISTORES

Pos.	Código	Descrição
Q101	4822 130 63195	2SA1317-S-AC
Q102	4822 130 43026	2SA1346
Q103	4822 130 43026	2SA1346
Q105	4822 130 43026	2SA1346
Q111	4822 130 63797	2SC3330-S-AC
Q112	4822 130 63797	2SC3330-S-AC
Q113	4822 130 63531	2SD1936-T-AC
Q114	4822 130 63824	2SD1936-T-AC
Q801	4822 130 60644	9014C

I.C.'s

Pos.	Código	Descrição
IC101	4822 209 90439	LA9210
IC102	4822 209 33092	LC7861NE
IC103	4822 209 32636	LA6531
IC104	4822 209 32636	LA6531
IC105	4822 209 90443	LC708036
IC106	4822 209 90441	LC78815MF
IC107	4822 209 30798	LA6458SS
IC108	4822 209 90442	78M05T

INDUTORES

Pos.	Código	Descrição
X101	4822 242 82126	Cristal 16.9344MHz
X102	4822 242 82127	Osc. cerâmico 4MHz
	4822 278 90759	Chave leaf (LSA-1120YAU)
J112	4822 157 71576	Bobina choque de 100µH

DIODOS

Pos.	Código	Descrição
D 102	4822 130 83242	GMB01-BT
D 103	4822 130 83242	GMB01-BT
D 104	4822 130 83242	GMB01-BT
D 105	4822 130 83242	GMB01-BT
D 106	4822 130 83242	GMB01-BT

D 107	4822 130 83242	GMB01-BT
D 108	4822 130 83242	GMB01-BT
D 109	4822 130 83242	GMB01-BT
D 203	4822 130 83242	GMB01-BT
D 204	4822 130 83242	GMB01-BT
D 301	4822 130 34233	BZX79-B5V1
D 601	4806 130 37078	1N4148
D 602	4806 130 37078	1N4148
D 603	4806 130 37078	1N4148
D 604	4806 130 37078	1N4148
LD853	4822 130 83956	LED L-53GD
LD854	4822 130 83956	LED L-53GD
LD855	4822 130 83956	LED L-53GD
LD856	4822 130 83956	LED L-53GD
LD857	4822 130 83956	LED L-53GD
LD858	4822 130 83956	LED L-53GD

DIVERSOS

Pos.	Código	Descrição
LCD	4822 130 91491	Display LCD (HLC-8738)
SW601	4822 276 13595	Chave de tato
SW602	4822 276 13595	Chave de tato
SW603	4822 276 13595	Chave de tato
SW604	4822 276 13595	Chave de tato
SW605	4822 276 13595	Chave de tato
SW606	4822 276 13595	Chave de tato
SW607	4822 276 13595	Chave de tato

PAINEL AUDIO

RESISTORES

Pos	Código	Descnção
VR301	4822 105 11153	Pot. de Volume B-50K
VR302	4822 105 11153	Pot de Volume B-50K
VR303	4822 105 11153	Pot. de Volume B-50K

INDUTORES

Pos	Código	Descrição
RS501	5322 242 70827	Ressonador cer CSB-455E
L 401	4822 157 71598	Bobina 33mH
L 402	4822 157 71598	Bobina 33mH
L 801	4822 157 71689	Bobina 12mH

DIODOS

Pos.	Código	Descrição
D3XX	4806 130 37078	1N4148
D801	4822 130 83883	FR202
D802	4822 130 83883	FR202
D803	4822 130 83883	FR202
D804	4822 130 83883	FR202

ZD551	4822 130 33948	Zener MTZJ 5.6B
ZD552	4822 130 33948	Zener MTZJ 5.6B
ZD801	4822 130 30862	Zener UZ 9.1B-L
ZD803	4822 130 60926	Trans. 2SK117BL
ZD804	4822 130 80273	Zener MTZJ 8.2C
ZB802	4822 130 34278	BZX79-B6V8
LD201	4806 130 37399	LED TLR124
LD551	4822 130 83957	LED L-13HD
LD851	4822 130 83958	LED EL331YD
LD852	4822 130 83958	LED EL331YD

TRANSISTORES

Pos.	Cód. Pedido	Descrição
Q3XX	4822 130 60644	9014C
Q401	5322 130 60898	2SC2878B
Q402	5322 130 60898	2SC2878B
Q404	4822 130 63082	9015C
Q405	5322 130 60898	2SC2878B
Q406	5322 130 60898	2SC2878B
Q501	4822 130 63012	9013G
Q502	4822 130 63082	9015C
Q801	4822 130 63423	8550C
Q803	4822 130 63774	2SKD1406Y
Q804	4822 130 63664	8050C
Q805	4822 130 63664	8050C
Q806	4822 130 63664	8050C
Q807	4822 130 63082	9015C
Q808	4822 130 63664	8050C
Q851	4822 130 60644	9014C
Q851	4822 130 60644	9014C

I.C.'s

Pos.	Código	Descrição
IC401	4822 209 90225	KA22211
IC402	4822 209 90224	KA22241
IC501	4822 209 90099	PT2248
IC551	4822 209 90101	PT2249
IC552	4822 209 71391	BU4013BF
IC801	4822 209 31544	TA8227P
IC851	4822 209 90102	PT2253

DIVERSOS

Pos.	Código	Descrição
SW351	4822 276 13622	Chave
SW401	4822 277 60281	Chave 4P3T
SW402	4822 277 30973	Chave 2P3T
SW551	4822 276 13621	Chave de tato
SW851	4822 276 13621	Chave de tato

SW852	4822 276 13621	Chave de tato
ID 501	4822 130 82803	Led infra. (EL-111)
JA801	4822 267 31888	Soquete p/ fone-de-ouvido
F 801	4822 070 32502	Fusível 2.5A / 250V
T 401	4822 157 71584	Bobina osc. de BIAS AC
	4822 267 31931	Soquete de rede
	4822 272 10388	Seletor de voltagem (110/220V)
	4822 146 31494	Transformador de rede (110/220V)
	4822 116 90895	Sensor (RPM-638CBR)

PAINEL TUNER

RESISTORES

Pos.	Código	Descrição
VR101	4822 100 12252	Semi-fix VR B10K

INDUTORES

Pos	Código	Descrição
L 103	4822 157 71691	Bob de FM
L 104	4822 157 71589	Bob p/ ant. de AM
T 101	4822 157 71583	Bob. IFT de FM (laranja)
T 102	4822 157 71581	Bob. IFT de AM (branca)
T 103	4822 157 71582	Bob. IFT de FM (rosa)
T 104	4822 157 71581	Bob IFT de AM (branca)
T 105	4822 157 71732	Bob. osc. de AM
CF101	4822 242 70665	Filtro de FM (SFE10.7MS3-A)

DIODOS

Pos.	Código	Descrição
D 101	4806 130 37078	1N4148
D 102	4806 130 37078	1N4148
D 103	4822 130 30312	1N-60P
D 104	4822 130 81633	SD116
D 105	4806 130 37078	1N4148
ZD101	4822 130 31554	BZX79/C4V3

I.C.'s / Transistores

Pos.	Código	Descrição
IC 101	4822 209 63837	KA22495
IC 102	4822 209 63835	KA22471
IC 103	4822 209 90215	KA2264
Q 102	4822 130 63778	9011F

DIVERSOS

Pos.	Código	Descrição
VC 1	4822 125 50687	Cap. Variável
SW101	4822 277 21806	Chave deslizante (4P3T)
	4822 532 81151	Bar. ferrite D10x80

Obs.: As **peças** relacionadas acima, são as **únicas disponíveis** para **reposição no SERVICE.**